

SERVICE MANUAL



T 753
Surround Sound Receiver

T 753
Surround Sound Receiver
PHASE II

SAFETY INFORMATION

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THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:
 (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.
 (2) THIS DEVICE MUST ACCEPT INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

NAD ELECTRONICS INTERNATIONAL
 633 GRANITE COURT, PICKERING, ON CANADA L1W 3K1
MODEL T 753 A/V SURROUND SOUND RECEIVER
POWER RATING 120V 60Hz 6A ~
 CUSTOM MANUFACTURED TO NAD SPECIFICATIONS
 IN THE PEOPLE'S REPUBLIC OF CHINA

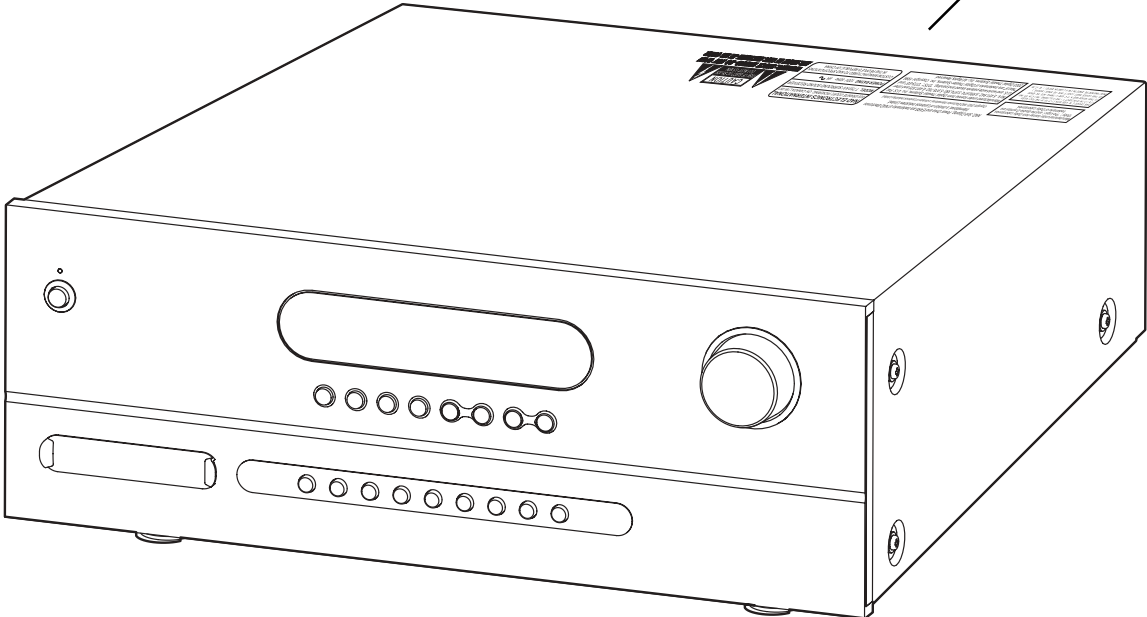
AH VERSION

NAD ELECTRONICS INTERNATIONAL
 633 GRANITE COURT, PICKERING, ON CANADA L1W 3K1
MODEL T 753 A/V SURROUND SOUND RECEIVER
POWER RATING 230V 50Hz 3A ~
 CUSTOM MANUFACTURED TO NAD SPECIFICATIONS
 IN THE PEOPLE'S REPUBLIC OF CHINA

C VERSION

CAUTION
 RISK OF ELECTRIC SHOCK
 DO NOT OPEN

WARNING: SHOCK HAZARD - DO NOT OPEN
AVIS: RISQUE DE CHOC ELECTRIQUE - NE PAS OUVRIR







SERVICE SAFETY PRECAUTIONS

1. Replacing the fuses

CAUTION:

FOR CONTINUED PROTECTION AGAINST THE RISK OF FIRE REPLACE ONLY WITH SAME TYPE OF FUSE.

<u>Reference Designator</u>	<u>Database Part Number</u>	<u>Description</u>
F751*AH,AHT 	370-019100-00(2)	FUSE TIME-LAG 10A/250VAC 5X20mm UL/CSA 5T
F751*C,CT 	370-015100-03(3)	FUSE 800mA 250V TIME LAG LBC 5x20mm 5T UL/CSA/VDE/SEMKO
F752*AH,AHT 	370-011100-06(4)	FUSE 1.6A 250V TIME LAG LBC 5x20mm 5T UL/CSA/VDE/SEMKO
F752*C,CT 	370-018100-05(2)	FUSE TIME-LAG 6.3A/250VAC 5X20mm VDE/UL/CSA 5T


NOTE:

<*AH , *AHT> : USA, CANADIAN MODEL ONLY.
 <*C, *CT > : EUROPEAN MODEL ONLY.

2. Safety check out

(Only U.S.A. model)

Before returning the product to the customer, make leakage current or resistance measurements to determine that exposed parts are acceptably insulated from supply circuit.

Parts marked with the symbol  are critical with regard to the risk of fire and electric shock.
 Replace only with parts recommended by the manufacturer.

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SPECIFICATIONS

POWER AMPLIFIER SECTION

Rated distortion (Rated power level into 8 ohms, THD 20 Hz-20 kHz FL/C/FR)		≤ 0.1 %
(Rated power level into 8 ohms, THD 20 Hz-20 kHz SL/SR/BS)		≤ 0.1 %
Input Sensitivity (ref. 8 ohms, 1 kHz)		127 ± 20 mV
S/N Ratio (A-wtd, 1kHz, 1 W, 8 ohm, SL/SR/BL)		≥ - 72 dB
Frequency Response (20 Hz - 20 kHz)		0 ± 1.0 dB
Channel Balance (1 dB to -40 dB, 1 kHz)		≤ 2 dB
(-41 dB to -50 dB, 1 kHz)		≤ 3 dB
Audio muting at 1 kHz		≥ 55 dB
Subwoofer out, 500 mV in (THD at 2 V O/P, 100 Hz)		≤ 0.5 %
Crosstalk (500 mV input, 10 W, 1 kHz)		≥ -57 dB
Controls		
Bass (at 500 mV in, 1 W out, 100 Hz)		± 10 dB ± 2 dB
Treble (at 500 mV in, 1 W out, 10 kHz)		± 10 dB ± 2 dB

DOLBY DIGITAL SECTION

Channel Difference (FL ref. Track 30)		± 1.2 dB
Frequency Response at Dolby config.2	SL Track 46 200 - 20 kHz	± 0.8 dB
	SR Track 47 200 - 20 kHz	± 0.8 dB
	C Track 44 200 - 20 kHz	± 0.8 dB
Harmonic Distortion (1 W, Audio LPF, Dolby Congfig 1)	FL Track 65 997 Hz	≤ 0.08 %
	FR Track 67 997 Hz	≤ 0.08 %
	SL Track 68 997 Hz	≤ 0.08 %
	SR Track 69 997 Hz	≤ 0.08 %
	C Track 66 997 Hz	≤ 0.08 %
S/N Ratio (31 for O/P 1 W, Track 35)	CCIR / ARM	≥ 65 dB
	Audio LPF	≥ 70 dB
	A-wtd	≥ 70 dB
Channel Separation (1 W, 20 kHz LPF)	Track 65 997 Hz	≥ 60 dB

DOLBY PRO LOGIC II SECTION

Frequency Response

I/P mode : L, R : 1 V in, 1 W, Ch L/R	40 Hz	0 ± 2.0 dB
	20 Hz	0 ± 2.0 dB
I/P mode : L=R : 1 V in, 1 W, Ch /L/R	40 Hz	0 ± 2.0 dB
Ch C	20 kHz	0 ± 2.0 dB
I/P mode : L=-R : 1 V in, 1 W, Ch SL/SR	40 Hz	0 ± 2.0 dB
	20 kHz	0 ± 2.0 dB
S/N Ratio (200 mV in, 1 W, A-WTD w/ 1 k termination)		
I/P mode : L, R : 1 kHz, Ch L/R		≥ 65 dB
I/P mode : L=R : 1 kHz, Ch C		≥ 65 dB
I/P mode : L=-R : 1 kHz, Ch SL/SR		≥ 65 dB
THD (2.2 V in, 1 W, w/ 80 kHz LPF, 1 kHz)		≤ 0.2 %

DTS SECTION

Output Level (Vol 0 dB)	: FL/FR/C/SL/SR Track 6	1 kHz	0.3 ± 1.3 W
Channel Difference (FL ref)	: FL/FR/C/SL/SR Track 6	1 kHz	± 1.0 dB
Harmonic Distortion (Audio Filter)	: FL/FR/C/SL/SR Track 10-14	1 kHz	≤ 0.08 %
Frequency Response (20 Hz to 20 kHz)	Track 26-30		+2/-1.5
Subwoofer Output Level	1 kHz ref at pre-out (FL) Play Track 10, charge to 15		12.5 ± 1.5 dB

AM TUNER SECTION

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

Usable sensitivity	(999/1000 kHz)	≤ 30 dBμV
S/N Ratio	(5 mV in)	≥ 38 dB
THD	(5 mV in)	≤ 3 %
IF Rejection	(450 kHz)	≤ 36 dB
Image Rejection	(F+2xIF)	≥ 28 dB
Selectivity		≥ 17 dB
Output		170 -20/+30 mV
Loop sensitivity	(20 dB S/N)	
	999/1000 kHz	≤ 66 dB
	603/600 kHz	≤ 66 dB
	1404/1400 kHz	≤ 66 dB
Frequency Response	(100 - 2.3 kHz, 5 mV)	± 6 dB

FM TUNER SECTION

*C

*AH

Input level is expressed as the reading in open circuit of 75-ohm source impedance signal generator

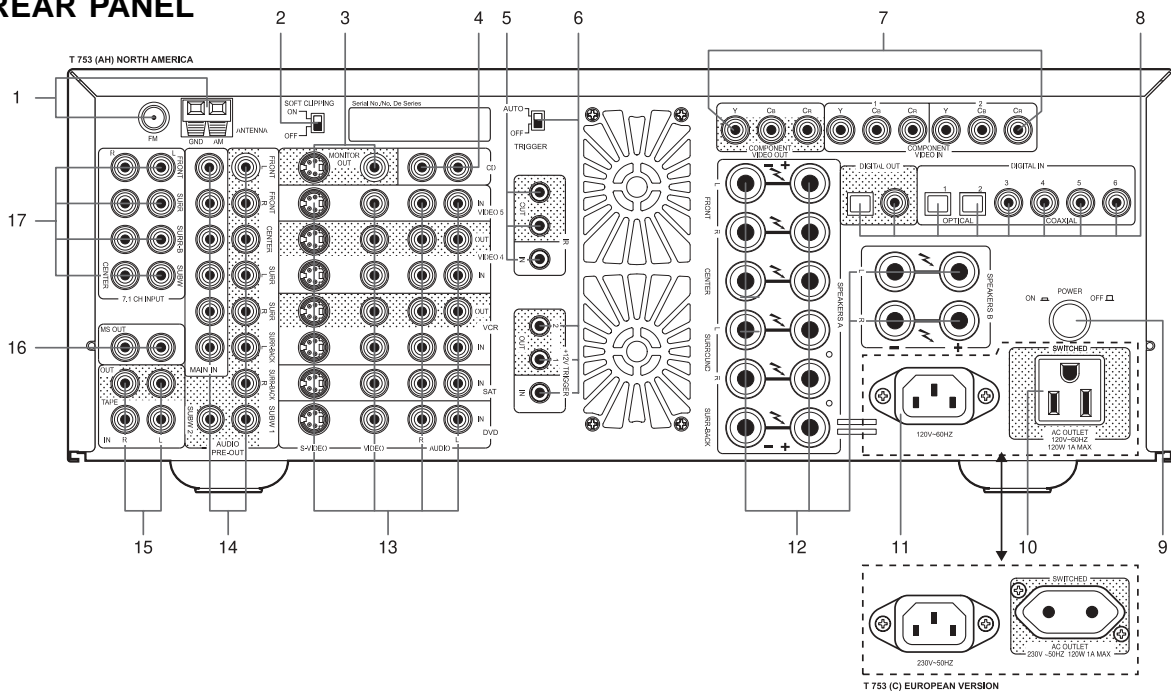
Usable sensitivity	(98 MHz)		≤ 15 dBμ	≤ 15 dBμv
S/N Ratio	(60 dB, IHF wtd)	Mono	≥ 63 dB	≥ 63 dB
		Stereo	≥ 63 dB	≥ 63 dB
Frequency Response	(20 Hz - 15 kHz, 60 dBμ)		0 ± 1.5 dB	0 ± 1.5 dB
Channel Separation	(60 dBμ)	100 Hz	≥ 30 dB	≥ 30 dB
		1 k	≥ 38 dB	≥ 38 dB
		10 kHz	≥ 30 dB	≥ 30 dB
Alternate Channel Selectivity (40 dBμ, ± 400 kHz)			≥ 60 dB	≥ 45 dB
Capture Ratio	(40 dBμ)		≤ 3 dB	≤ 3 dB
AM Suppression (60 dBμ, 100% Mod. FM, 30% Mod. AM)			≥ 48 dB	≥ 48 dB
Image Rejection	(119.4 MHz)		-	≥ 65 dB
I.F. Rejection	(10.7 MHz)		≥ 78 dB	-
Pilot Suppression	(98 MHz)		≥ 60 dB	≥ 60 dB
THD (60 dBμ, L=R 75 kHz for AH, 40 kHz Dev for C)		Mono	≤ 0.25 %	≤ 0.25 %
		Stereo	≤ 0.35 %	≤ 0.35 %
Auto-Search Sensitivity		On	≥ 24 dBμ	≥ 24 dBμ
		Off	≤ 15 dBμ	≤ 15 dBμ
RDS decode Sensitivity			≤ 26 dBμ	-

PHYSICAL SPECIFICATIONS

Dimensions (Width x Height x Depth)	435 x 170 x 423 mm
Net Weight	20.50 Kg (45.10 lbs)
Shipping Weight	24.0 Kg (52.80 lbs)

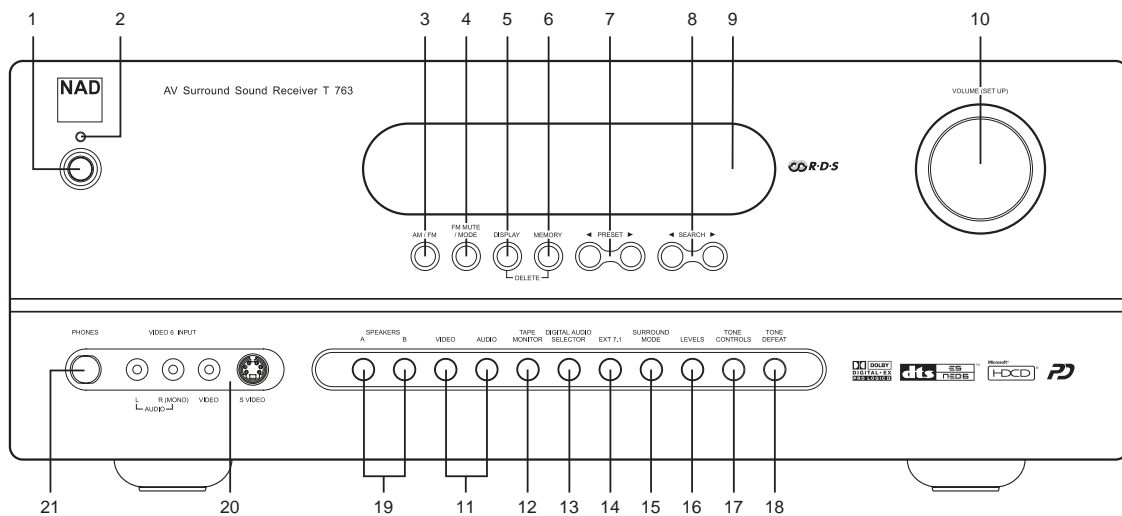
REAR PANEL / FRONT PANEL VIEW

REAR PANEL



- | | |
|---|--|
| 1. FM & AM ANTENNA | 9. POWER SWITCH |
| 2. SOFT CLIPPING ON/OFF | 10. SWITCHED AC OUTLETS |
| 3. MONITOR OUT | 11. AC POWER INLET |
| 4. CD INPUT | 12. SPEAKERS A & B |
| 5. IR INPUT & OUTPUT | 13. DVD, SAT, VCR, VIDEO 4 & VIDEO 5 |
| 6. +12V TRIGGER INPUT & OUTPUT | 14. MAIN IN / AUDIO PRE-OUTS / SUBWOOFER OUT |
| 7. COMPONENT VIDEO IN & COMPONENT VIDEO OUT | 15. TAPE INPUT & OUTPUT |
| 8. DIGITAL AUDIO INPUT & DIGITAL AUDIO OUTPUT | 16. MS OUT (MULTISOURCE OUT) |
| | 17. 7.1 CH. INPUTS |

FRONT PANEL



- | | | |
|-------------------|----------------------|--------------------|
| 1. STANDBY SWITCH | 7. PRESET DOWN / UP | 13. LEVELS |
| 2. STANDBY LED | 8. SEARCH DOWN / UP | 14. TONE DEFEAT |
| 3. AM / FM | 9. VFL DISPLAY | 15. TONE CONTROLS |
| 4. FM MUTE / MODE | 10. VOLUME (SETUP) | 16. SPEAKERS A & B |
| 5. DISPLAY | 11. SOURCE DOWN / UP | 17. VIDEO 6 INPUT |
| 6. MEMORY | 12. SURROUND MODE | 18. PHONES |

DISASSEMBLY INSTRUCTIONS

1. Remove machine screws M4.0 x 8.0 (1 to 6) from the side panels.
Remove tapping screw 3.0 x 8.0 (7 to 10) from the back panel.
Refer to **Figure No. 1**.

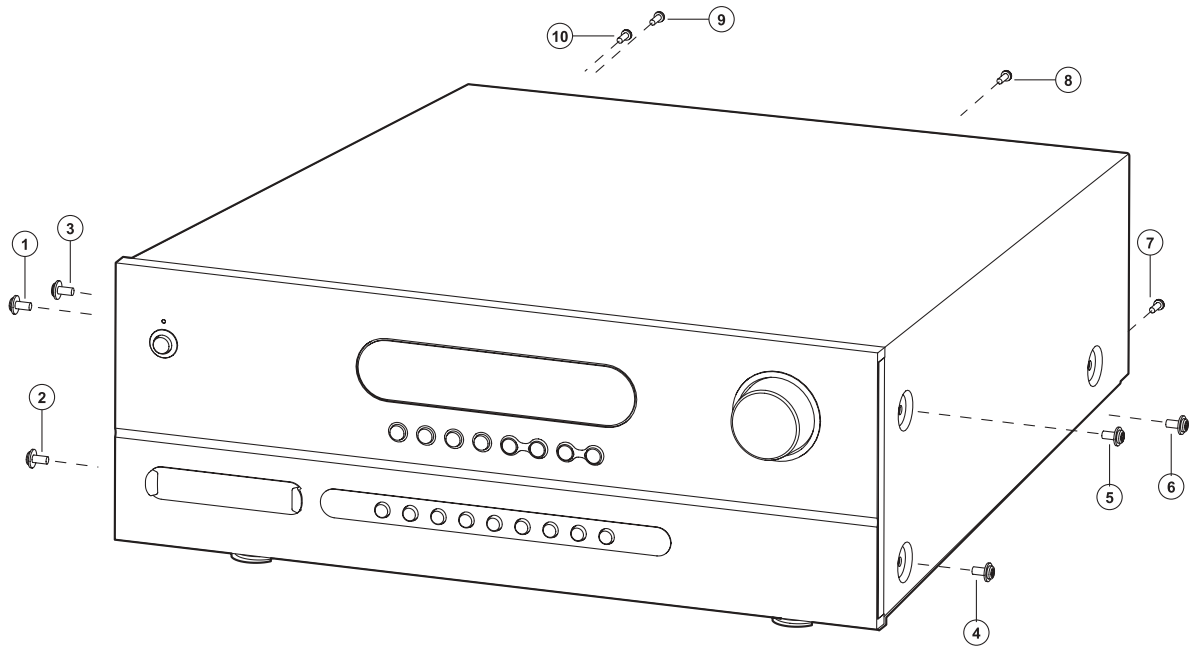


Figure No. 1

2. Pull both sides of the TOP COVER slightly outwards **11** and tilt approx. 35 ° and then remove in the direction as indicated by the arrow **12**. Refer to **Figure No. 2**.

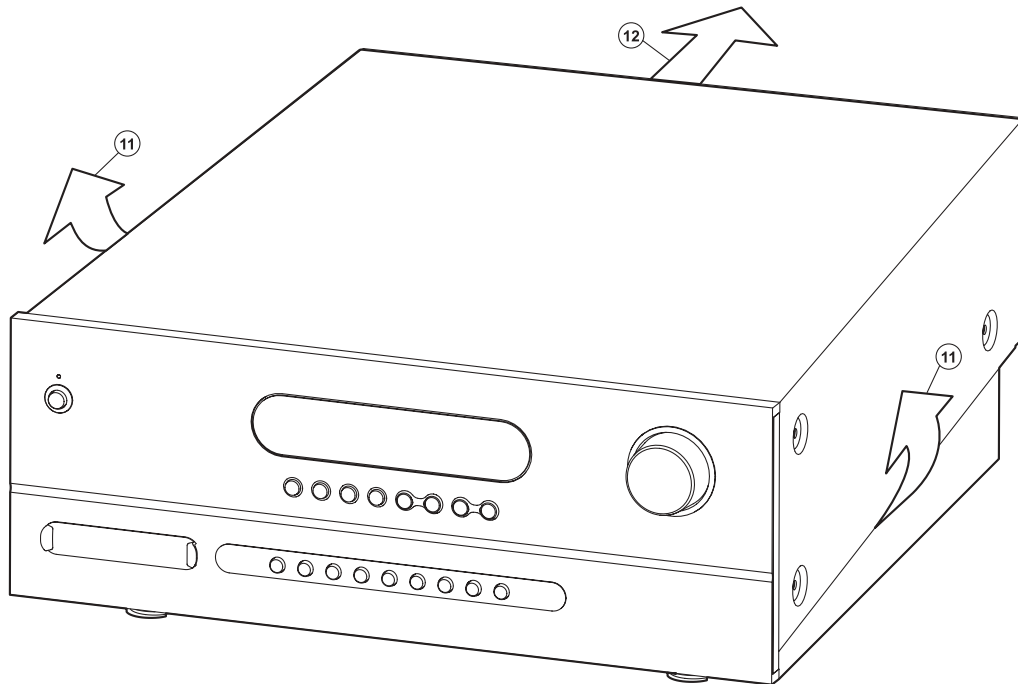


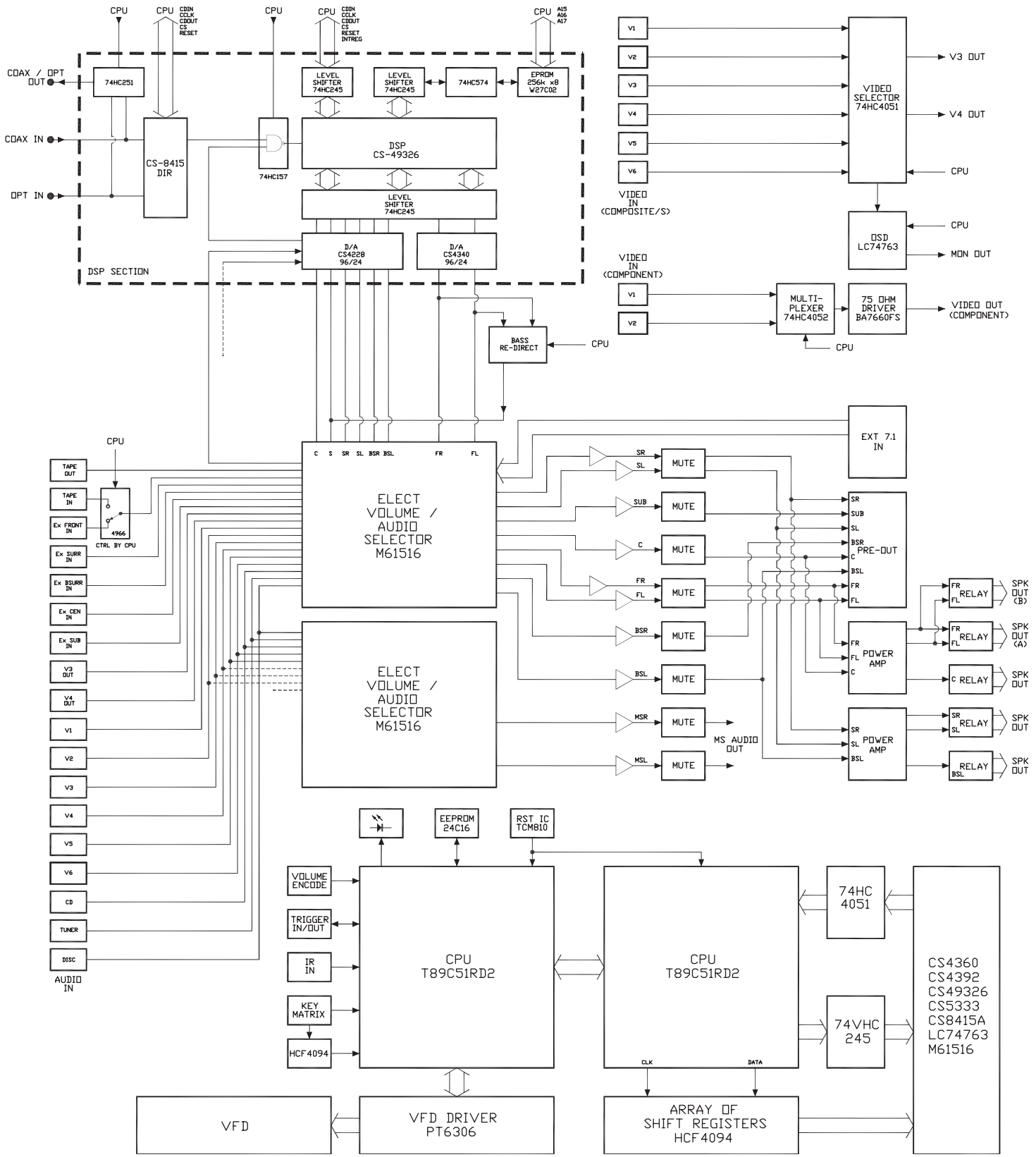
Figure No. 2

WIRING DIAGRAM PARTS LIST

<u>Item</u>	<u>Database Part Number</u>	<u>Description</u>	<u>Remark</u>
1	276-022613-06	CABLE ASSY 2 WAYS AWG=26 2.5P UL2468 L=440mm	AMP1 BD-J511A
2	276-041823-11	CABLE ASSY 4 WAYS AWG=18 3.96P UL1007 L=420mm YB03053103-03A	AMP1 BD-J581A
3	276-062613-22	CABLE ASSY 6 WAYS AWG=26 2.5P UL1007 L=320mm (RoHS)	AMP1 BD-J503A
4	276-041823-02	CABLE ASSY 4 WAYS AWG=18 3.96P UL1007 L=200mm REV.B (RoHS)	AMP2 BD-J781B
5	276-042613-08	CABLE ASSY 4 WAYS AWG26 2.5P UL1533 L=450MM (ROHS)	AUDIO BD-J3103A
6	276-022613-07	CABLE ASSY 2 WAYS AWG=26 2.5P UL1533 L=540mm (ROHS)	DIGIT BD-J1009A
7	276-042613-06	CABLE ASSY 4 WAYS AWG=26 2.5P UL2468 L=540mm	DIGITAL BD-J1010A
8	276-011843-01	CABLE ASSY 1 WAY AWG18 UL1007 BLACK L=100mm W/ RING TERMINAL (RoHS)	KEYBOARD-J201
9	276-052613-08	CABLE ASSY 5 WAYS AWG26 2.5P UL1007 L=160mm (RoHS)	LED BD-J204A
10	276-011843-03	CABLE ASSY 1 WAY AWG=18 UL1007 BLACK L=360mm W/ RING TERMINAL	MAIN BD-J701
11	276-032613-18	CABLE ASSY 3 WAYS AWG=26 2.5P L=110mm	MAIN BD-J6106B
12	276-032613-19	CABLE ASSY 3 WAYS AWG=26 2.5P L=60mm	MAIN BD-J6105B
13	276-032613-29	CABLE ASSY 3 WAYS AWG26X2C UL2547 L=210mm (UL LABEL) (RoHS)	MAIN BD-J715A
14	276-082613-22	CABLE ASSY 8 WAYS AWG=26X3C L=480mm (RoHS)	MAIN BD-J709A
15	276-102613-14	CABLE ASSY 10 WAYS AWG26 2.5P UL1007 L=460mm (UL LABEL)	MA BD-J350B
16	276-122613-16	CABLE ASSY 12 WAYS AWG26 2.5P UL2468 L=230mm (UL LABEL) (RoHS)	MA BD-J502B
17	276-142613-02	CABLE ASSY 14 WAYS #26 2.5P UL1007 L=540mm (RoHS)	MA BD-J8101B
18	276-031823-09	CABLE ASSY 3 WAYS AWG=18 3.96P UL1015 L=320mm	SPK BD-J782B1, J782B2, J782B3
19	276-031823-11	CABLE ASSY 3 WAYS AWG=18 3.96P UL1015 L=350mm	SPK BD-J582B1, J582B2, J582B3
20	276-051823-07	CABLE ASSY 5 WAYS AWG=18 3.96P UL1007 L=250mm (V/BL/Y)	SPK BD-J801B1, J801B3, J801B5
21	276-051823-09	CABLE ASSY 5 WAYS AWG=18 3.96P UL1007 L=120mm (BR/R/O)	SPK BD-J501B1, J501B3, J501B5
22	276-031823-16	CABLE ASSY 3 WAYS AWG=18 3.96P UL1015 L=240mm REV.C	SPK BD-J504B1, J504B3
23	276-062613-05	CABEL ASSY 6 WAYS AWG=26 2.5P UL1533X1C L=350mm (RoHS)	PO BD-J612A
24	276-062613-09	CABLE ASSY 6 WAYS AWG=26 2.5P UL 1533X1C L=540mm REV.B	PO BD-J611A

<u>Item</u>	<u>Database Part Number</u>	<u>Description</u>	<u>Remark</u>
25	276-011643-29	CABLE ASSY 1 WAY AWG=16 UL1672 BROWN L=100mm	PS BD-J757
26	276-011643-69	CABLE ASSY 1 WAY AWG=16 UL1672 BLUE L=100mm	PS BD-J756
27	276-042613-07	CABLE ASSY 4 WAYS AWG26 2.5P UL2468 L=400mm (ROHS)	PS BD-J753A
28	276-021823-01	CABLE ASSY 2 WAYS AWG=18 UL1007 L=170MM D08033504A	SE BD-J803A
29	276-061823-09	CABLE ASSY 6 WAYS #18 3.96P UL1007 L=150MM (RoHS)	SE BD-J801A
30	276-082613-20	CABLE ASSY 8 WAYS AWG=26 2.5P UL1007 L=380mm (RoHS)	SV BD-J414A
31	276-011843-01	CABLE ASSY 1 WAY AWG18 UL1007 BLACK L=100mm W/ RING TERMINAL (RoHS)	V6 BD-P4402
32	238-030070-20	FFC CABLE 30 PINS P1.25 L=70mm W/SHIELD	J601C
33	238-172820-03	FFC CABLE 17 PINS P1.25 L=200mm W/SHIELD	J720C
34	238-200016-00	FFC CABLE 20 PINS P1.25 L=160mm W/SHIELD	J604C
35	238-280017-00	FFC CABLE 28 PINS P1.25 L=170mm W/SHIELD	J602C,J603C
36	238-300222-00	FFC CABLE 30 PINS P1.25 L=220mm W/SHIELD	J713C,J714C
37	276-011643-23	CABLE ASSY 1 WAY AWG=16 UL 1015 GREEN/YELLOW L=100mm (RoHS)	1-CHASSIS GND
38	276-011643-29	CABLE ASSY 1 WAY AWG=16 UL1672 BROWN L=100mm	1-INLET/ PSU.BD (L), J759
39	276-011643-69	CABLE ASSY 1 WAY AWG=16 UL1672 BLUE L=100mm	1-INLET/ PSU.BD,J758

BLOCK DIAGRAM

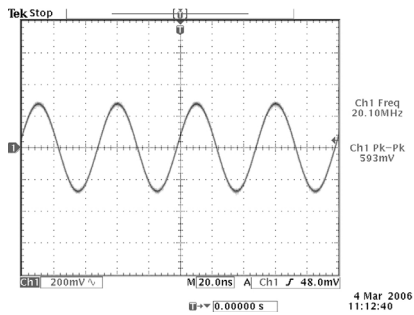


SPECIAL FUNCTION

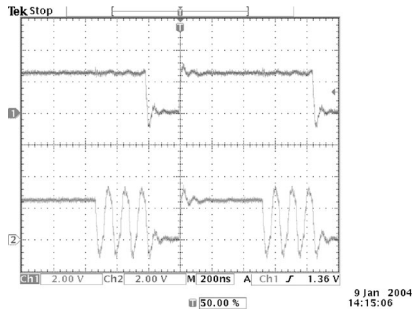
FEATURE	KEYS PRESS ON FRONT PANEL
RESET FOR AH VERSION	VIDEO 6 + SOURCE UP
RESET FOR C VERSION	VIDEO 6 + SOURCE DOWN
NTSC / PAL SELECTION	VIDEO + MEMORY
VFD ALL DISPLAY	AUDIO 6 + TONE DEFEAT
AM FREQ. STEP	AM/FM + FM MUTE

DETAILS & WAVEFORMS ON SYSTEM TEST & DEBUGGING

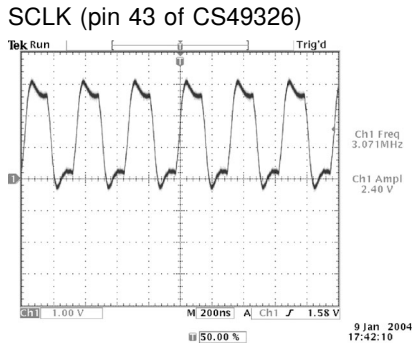
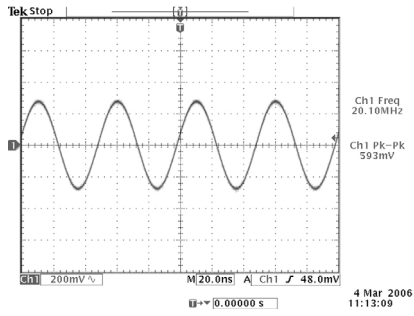
M6759(U202) main clock is at 20MHz(X202)



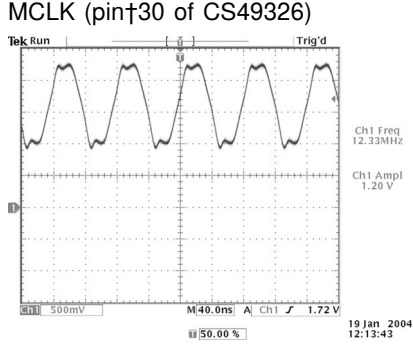
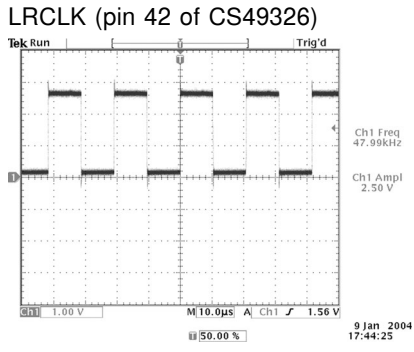
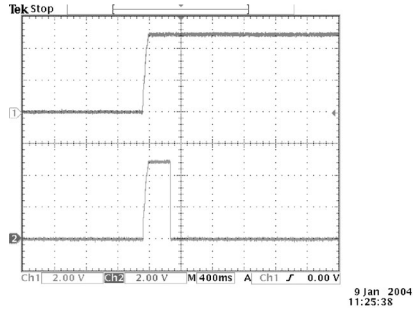
UPPER - OUTPUT ENABLE(pin 24) of EPROM (W27C02) when changing SURROUND MODES
 LOWER - CHIP ENABLE(pin 22) of EPROM (W27C02) when changing SURROUND MODES



M6759(U201) main clock is at 20MHz(X201)



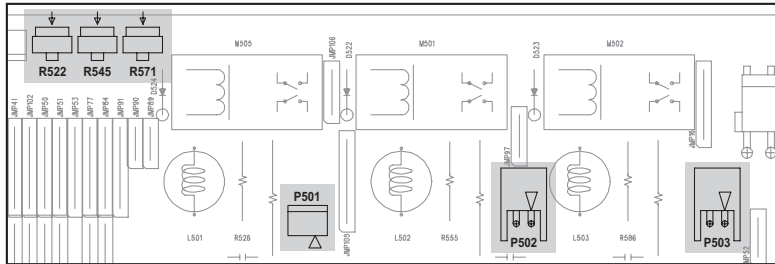
UPPER - +5V supply to KEYBOARD when power up
 LOWER - RESET line (TCM810LENB713) when power up



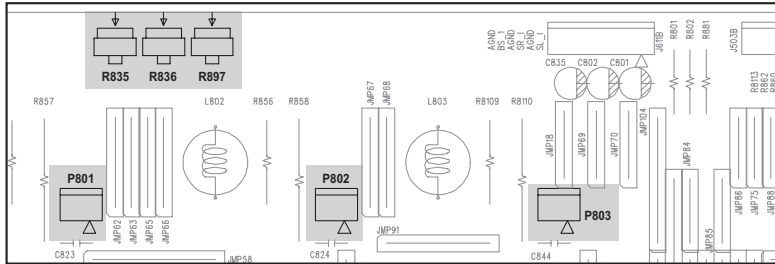
NOTE: The waveforms are based on software version V2.10.

ADJUSTMENT POINT DIAGRAM

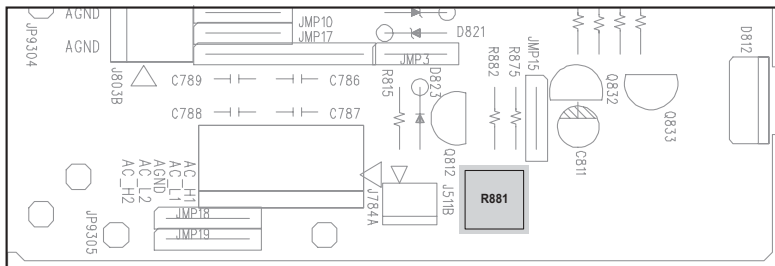
FRONT / CENTER AMPLIFIER BOARD



SURROUND AMPLIFIER BOARD



SECONDARY / ISC BOARD



AMPLIFIER ADJUSTMENT

Idle Current

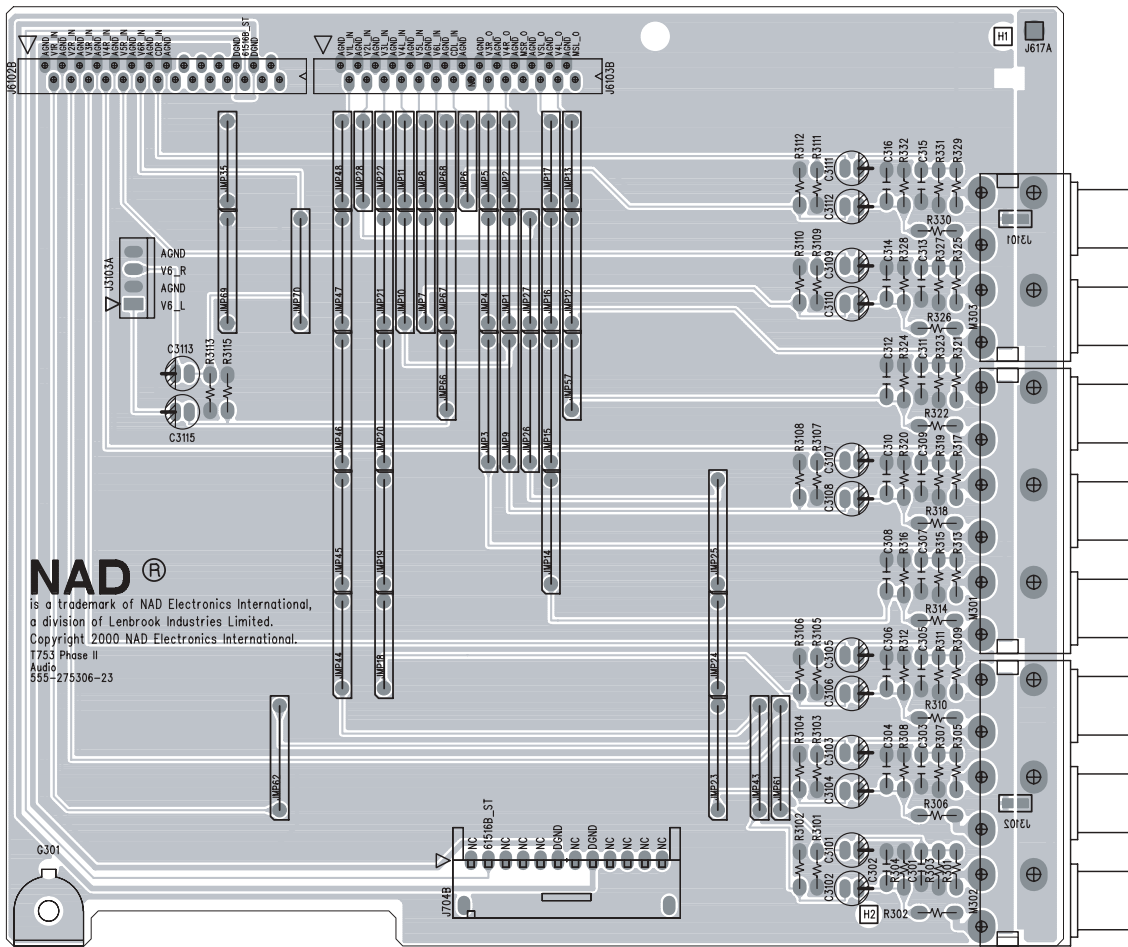
1. Rotate R522 fully clockwise.
2. Connect DC millivoltmeter to P501 (i.e. Across half of R523, 0.22 Ohm resistor).
3. Turn on the unit.
4. Adjust R522 for 1mV reading on voltmeter.
5. Leave power on for at least 5 min, and check for idle current again.
6. Repeat for other channels.

CHANNEL	JUMPER	VR
FL	P501	R522
FR	P502	R545
C	P503	R571
SL	P801	R835
SR	P802	R836
BS	P803	R897

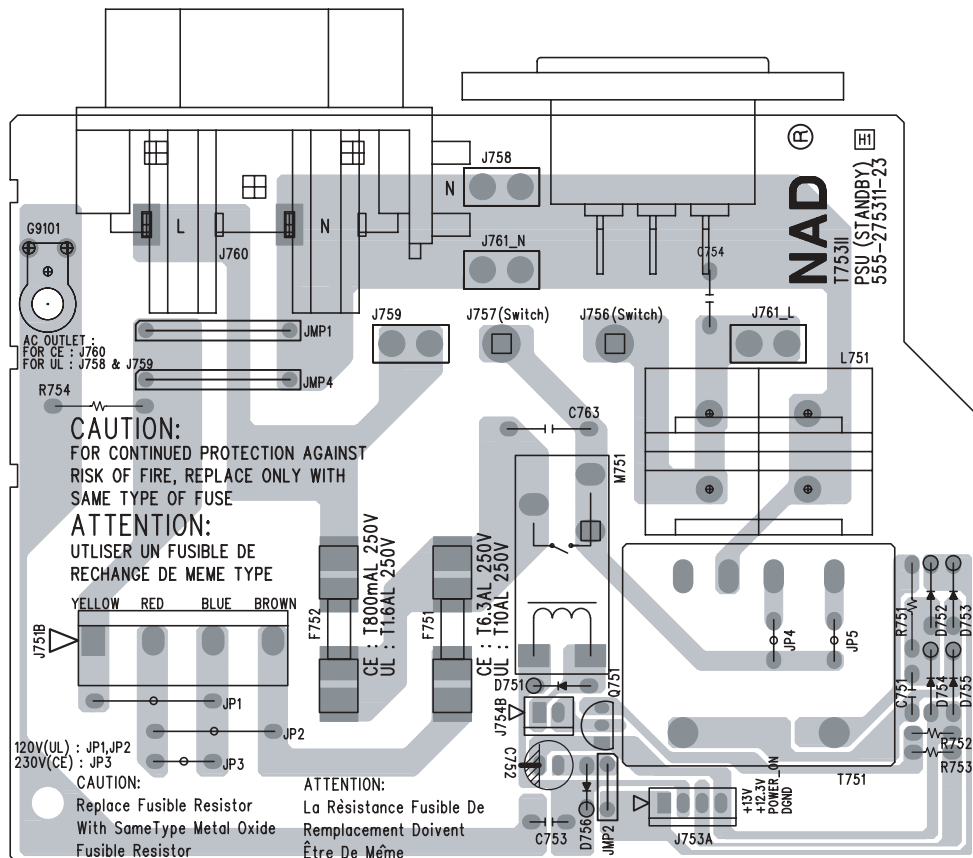
ISC Sensitivity

1. Connect 8 ohm loading to all channels.
2. Rotate R881 fully clockwise.
3. Load all channels at full power using 1kHz sine wave.
4. At this time, monitor the THD of the SL,SR,BS output. Clipping should occur before full power achieved.
5. Rotate R834 counter-clockwise slowly until the THD just below 0.1%.
6. Repeat step 2-5 for R834 but monitor FL, FR & Center output.
7. The procedure is finish at this step.
8. Load all channels at full power using 1kHz sine wave with 4 ohm load.
9. The clipping power(at THD 0.1%) should less than 85W.

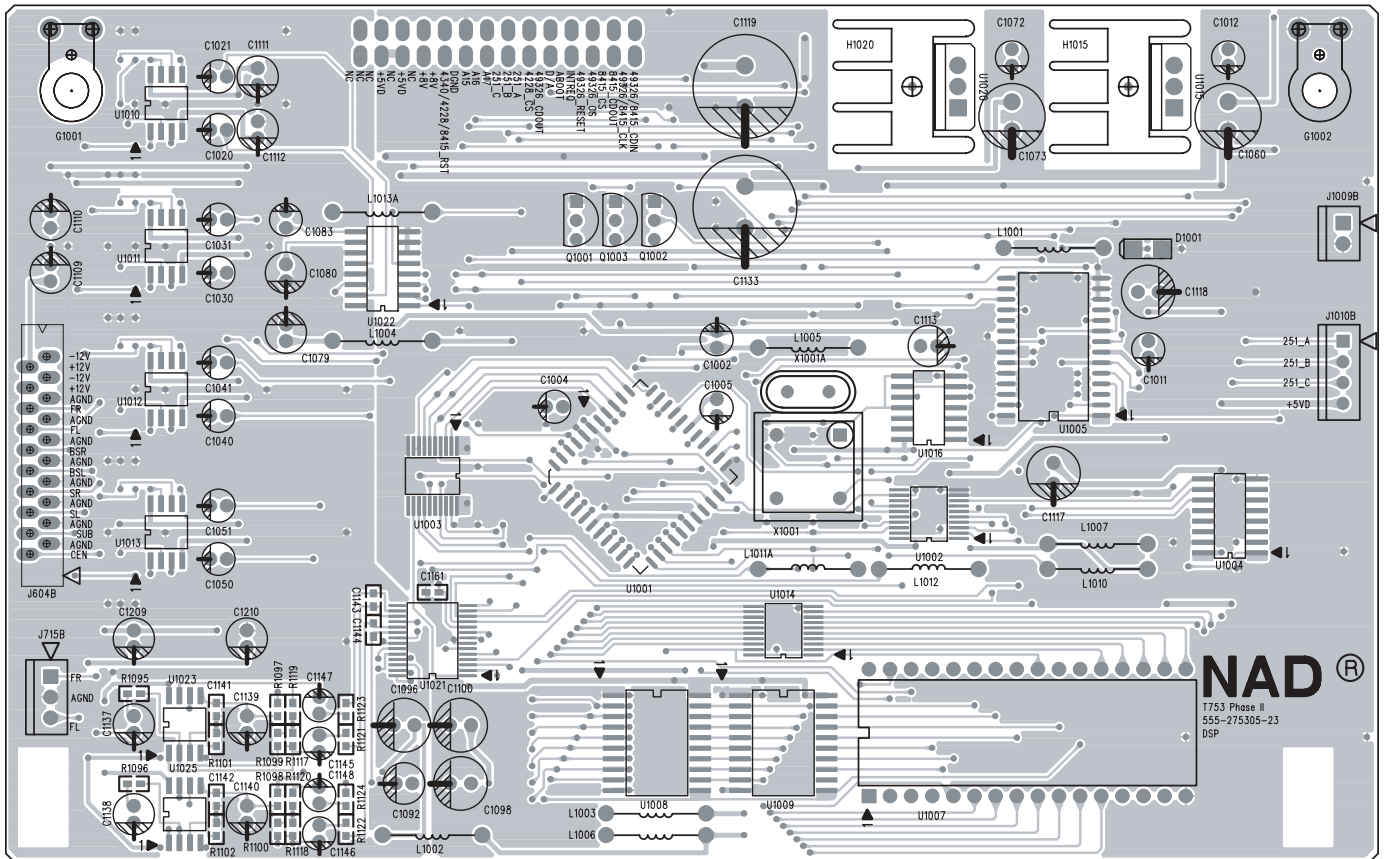
PCB LAYOUT AUDIO BOARD



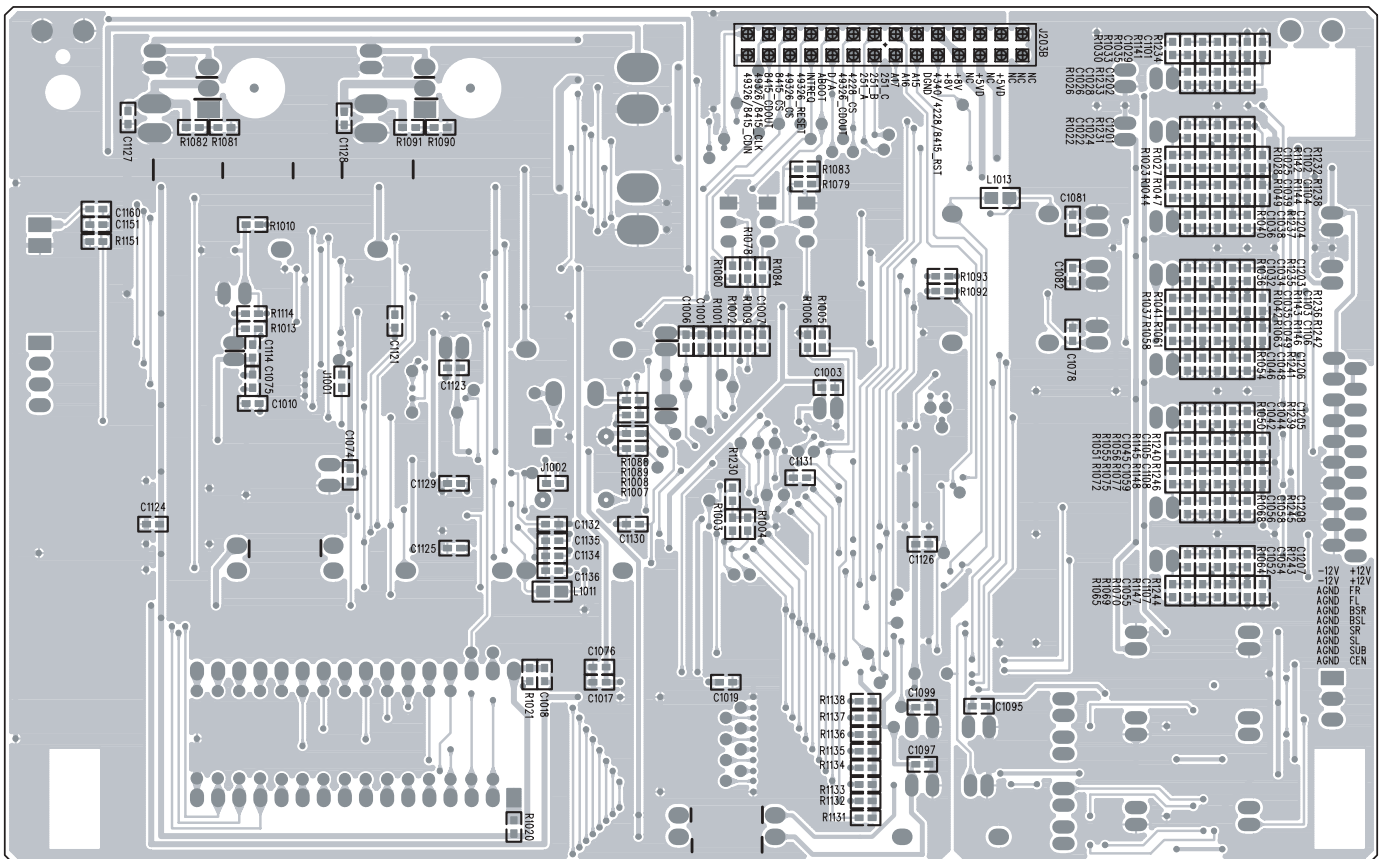
POWER SUPPLY (STANDBY) BOARD



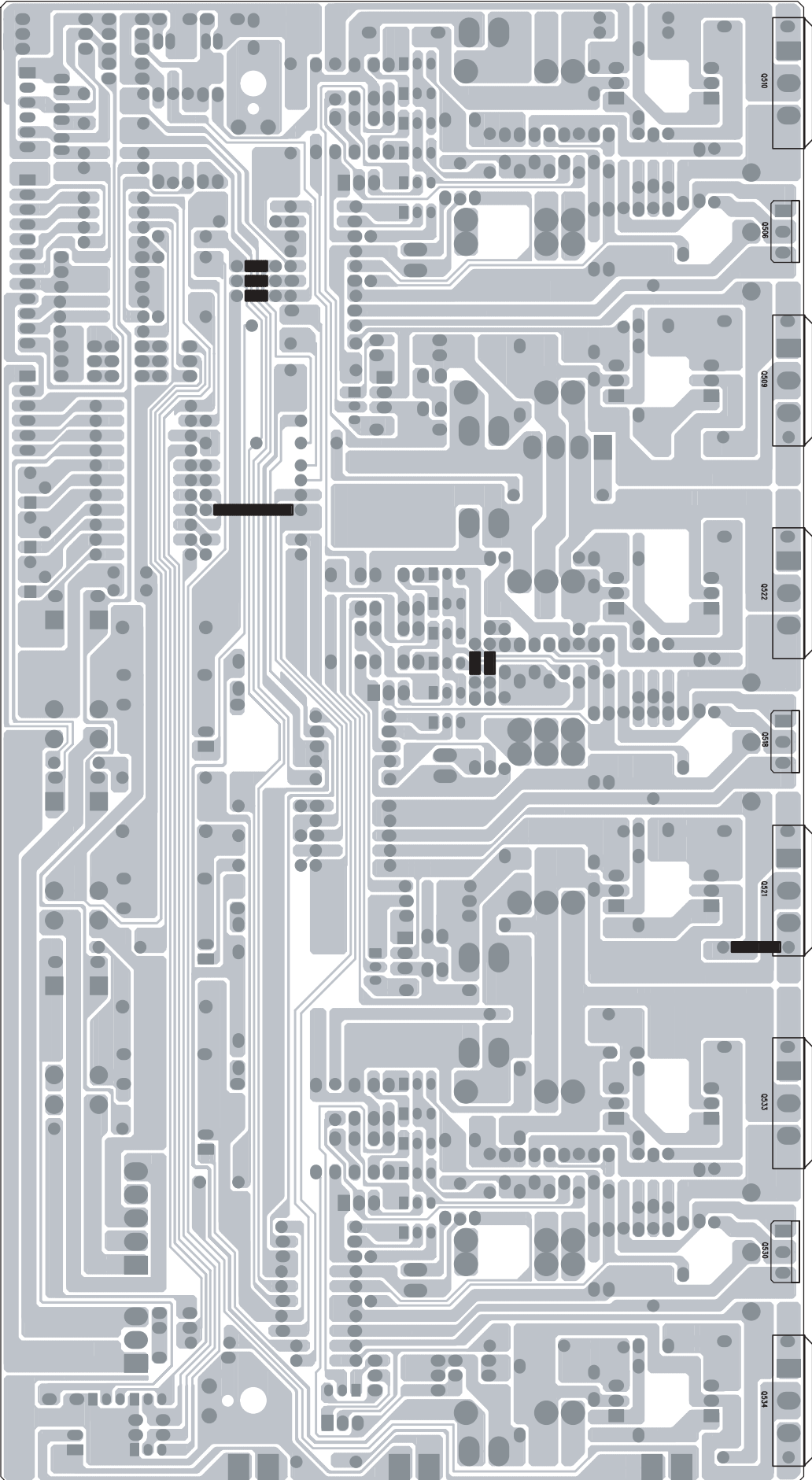
DSP BOARD - COMPONENT SIDE



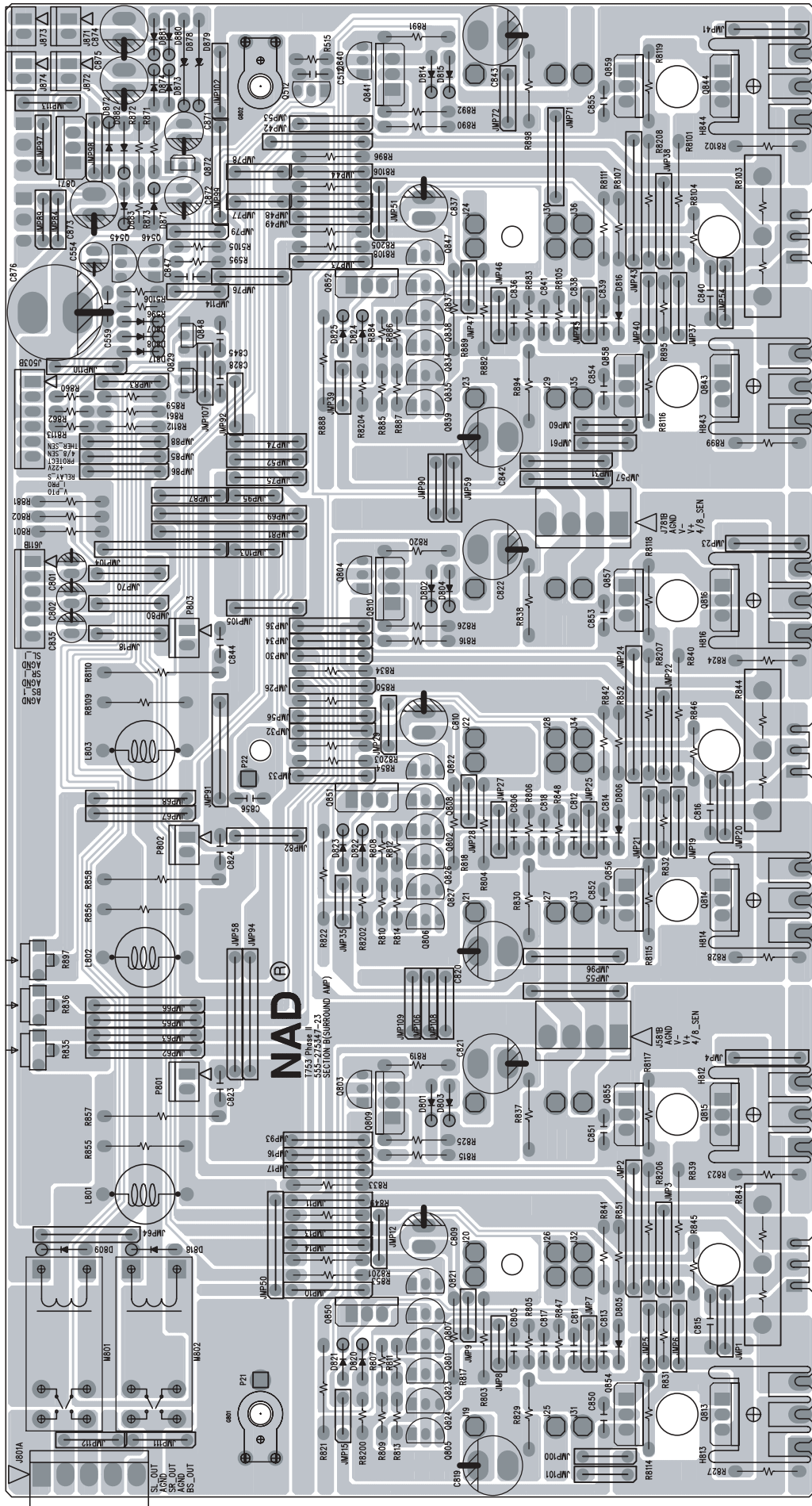
DSP BOARD - COPPER SIDE



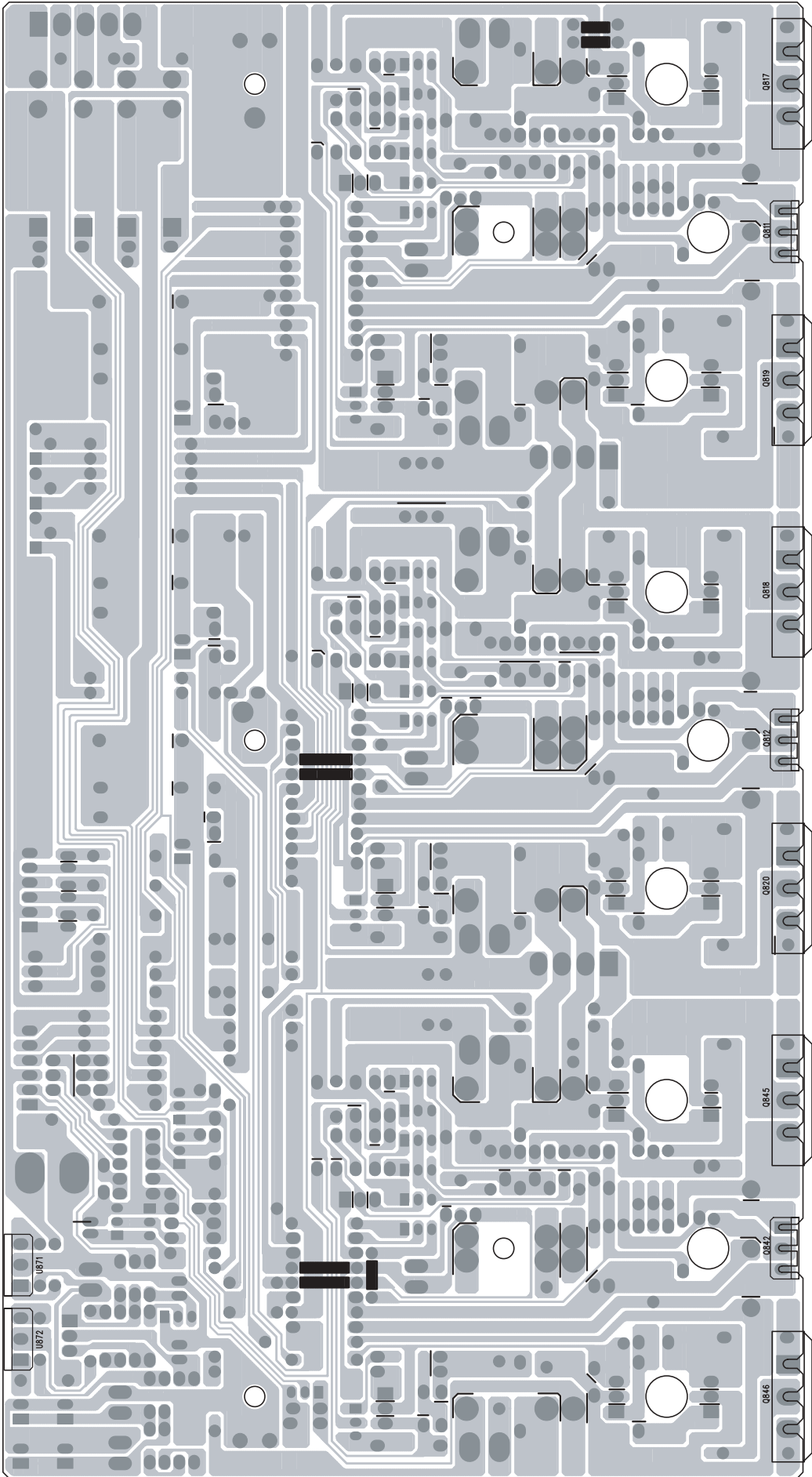
FRONT / CENTER AMPLIFIER BOARD - COPPER SIDE



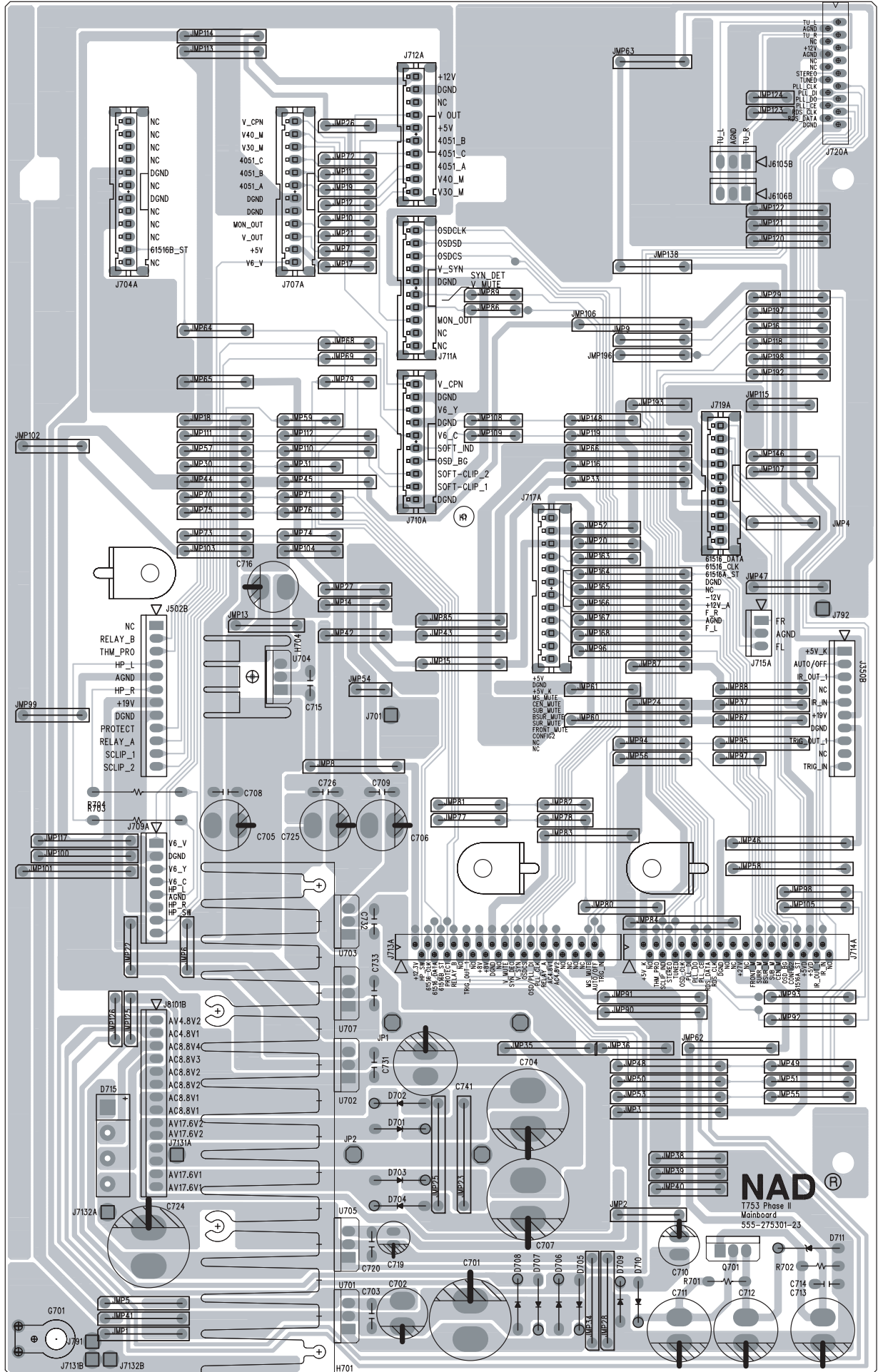
SURROUND AMPLIFIER BOARD - COMPONENT SIDE



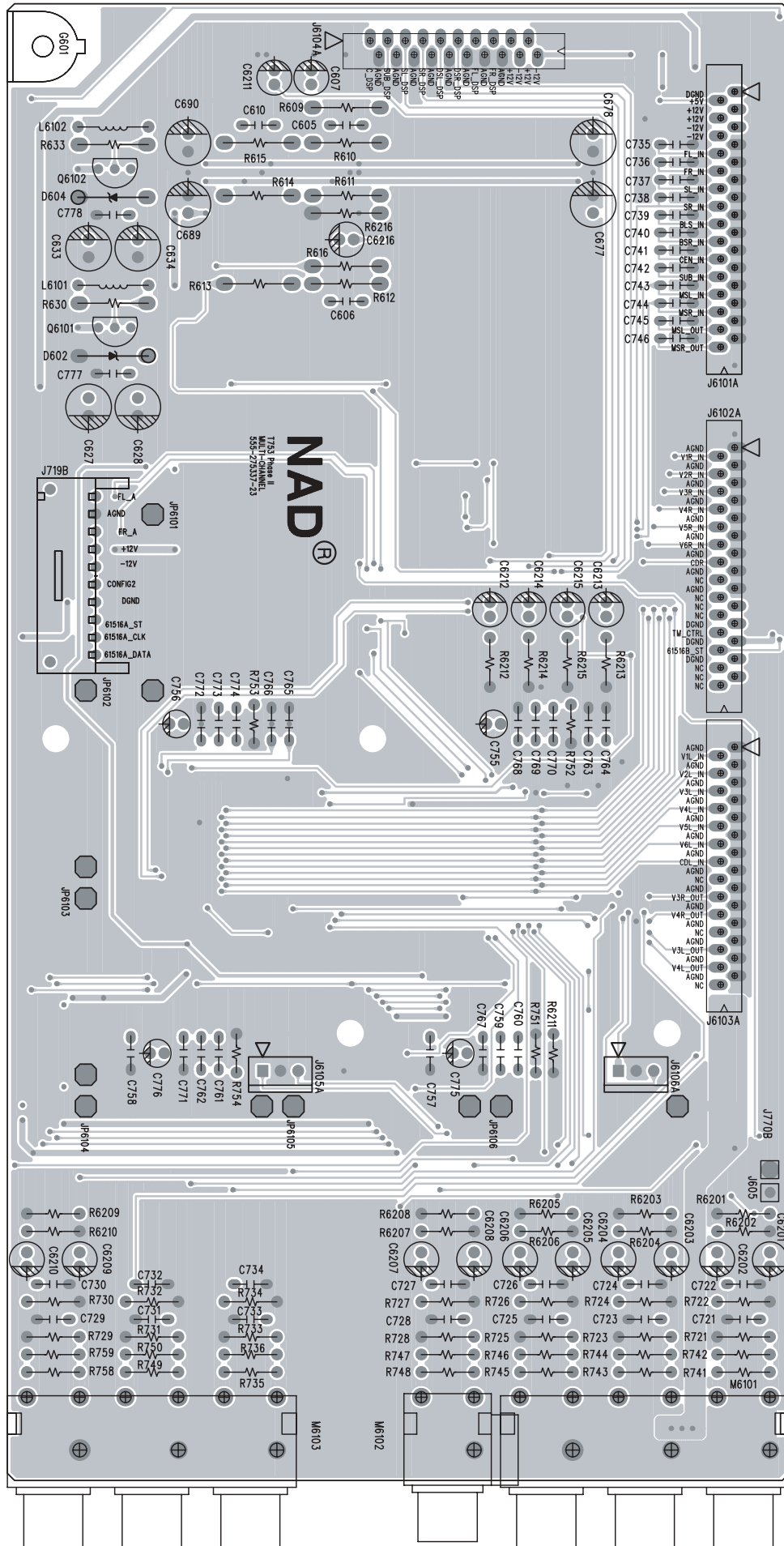
SURROUND AMPLIFIER BOARD - COPPER SIDE



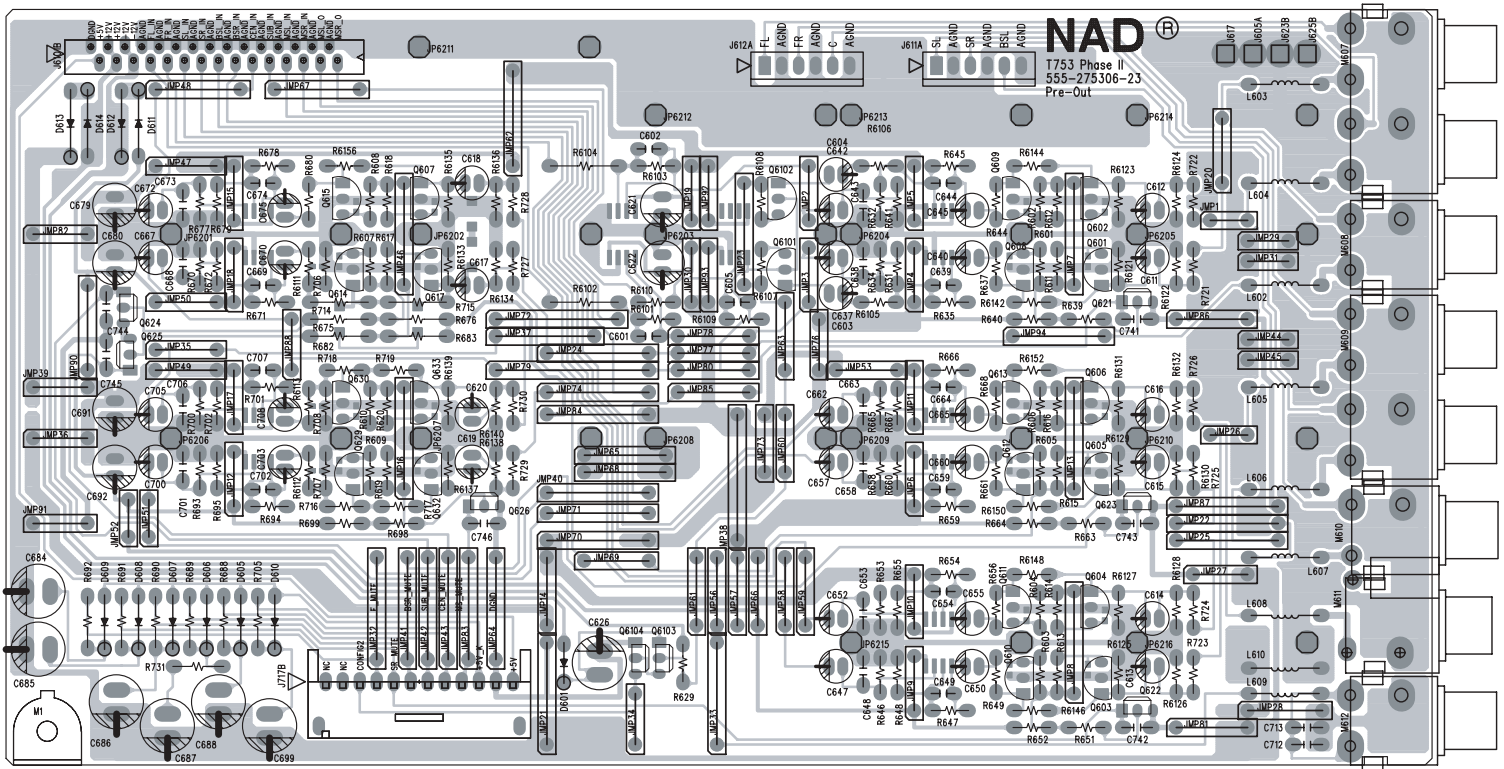
MAIN BOARD



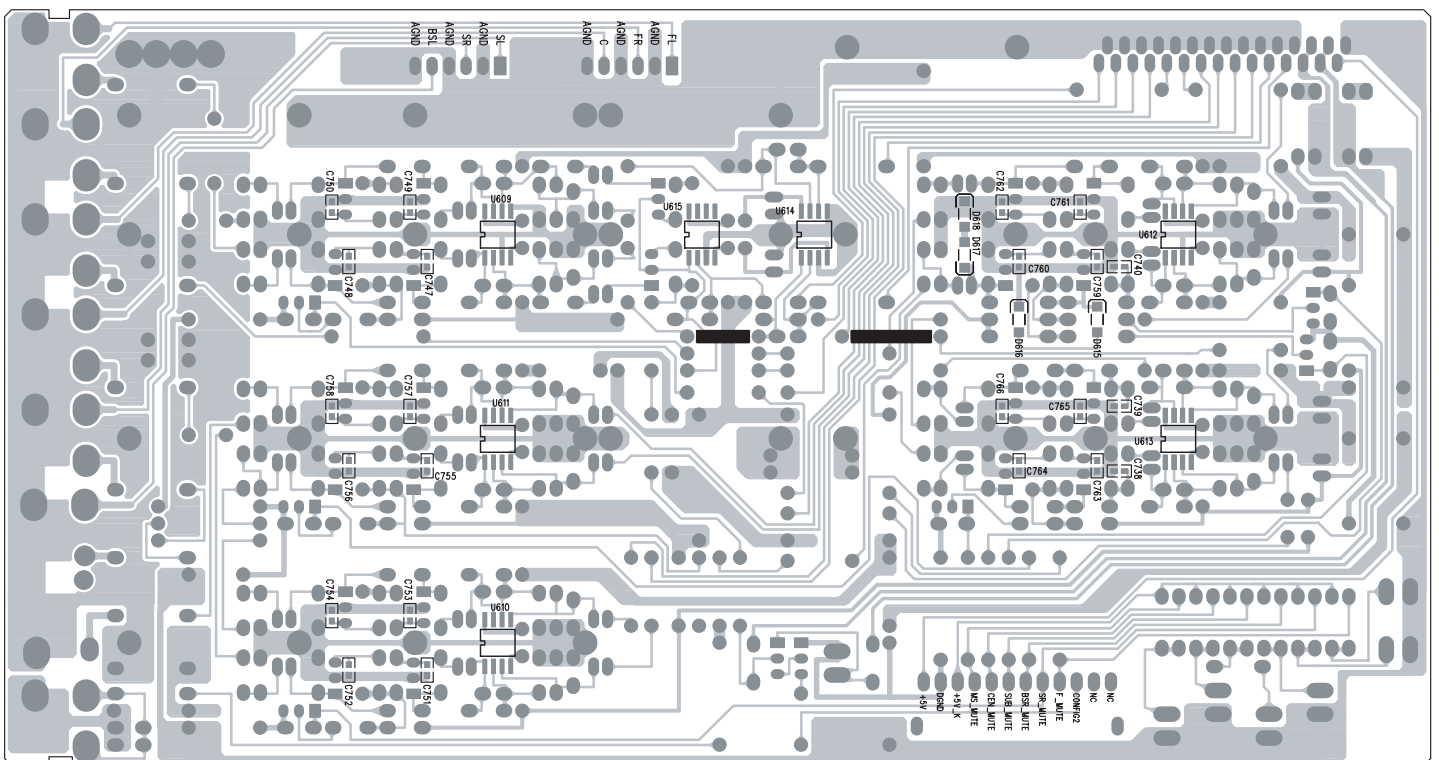
MULTI-CHANNEL BOARD - COMPONENT SIDE



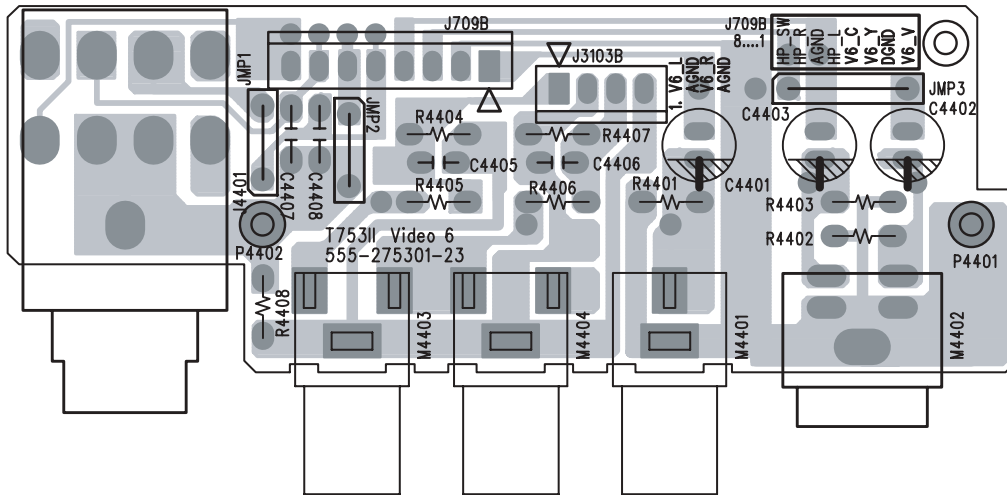
PRE-OUT BOARD - COMPONENT SIDE



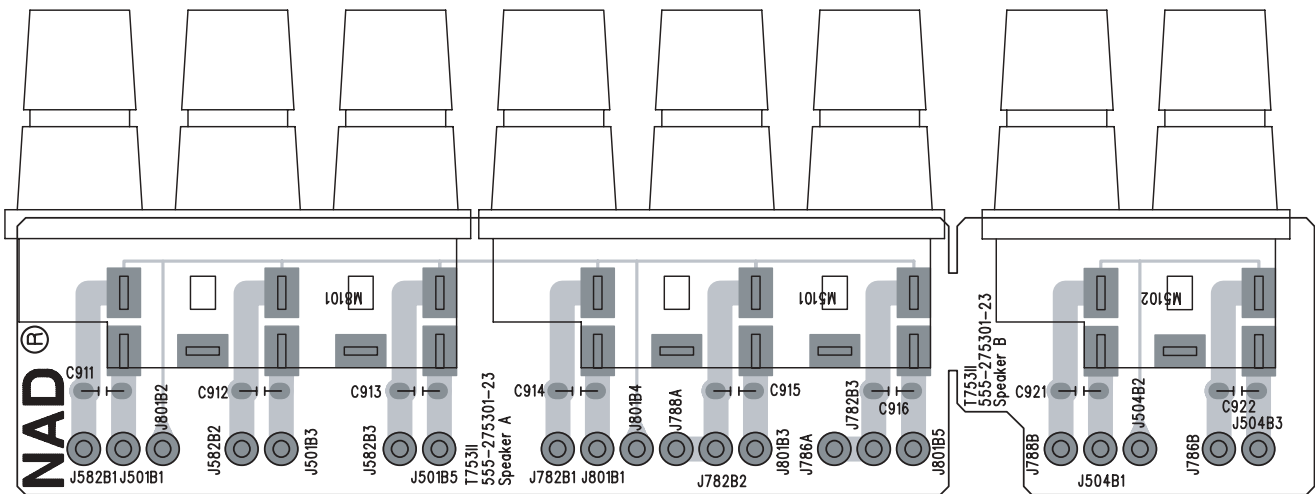
PRE-OUT BOARD - COPPER SIDE



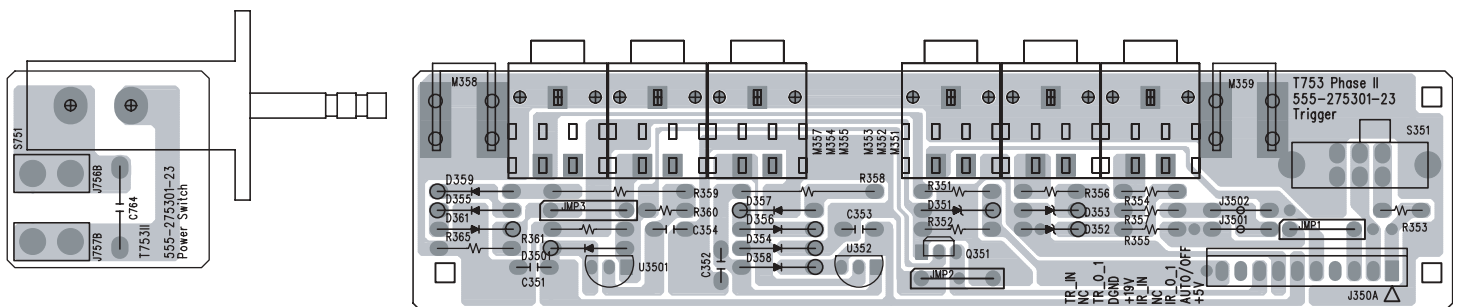
VIDEO 6 BOARD



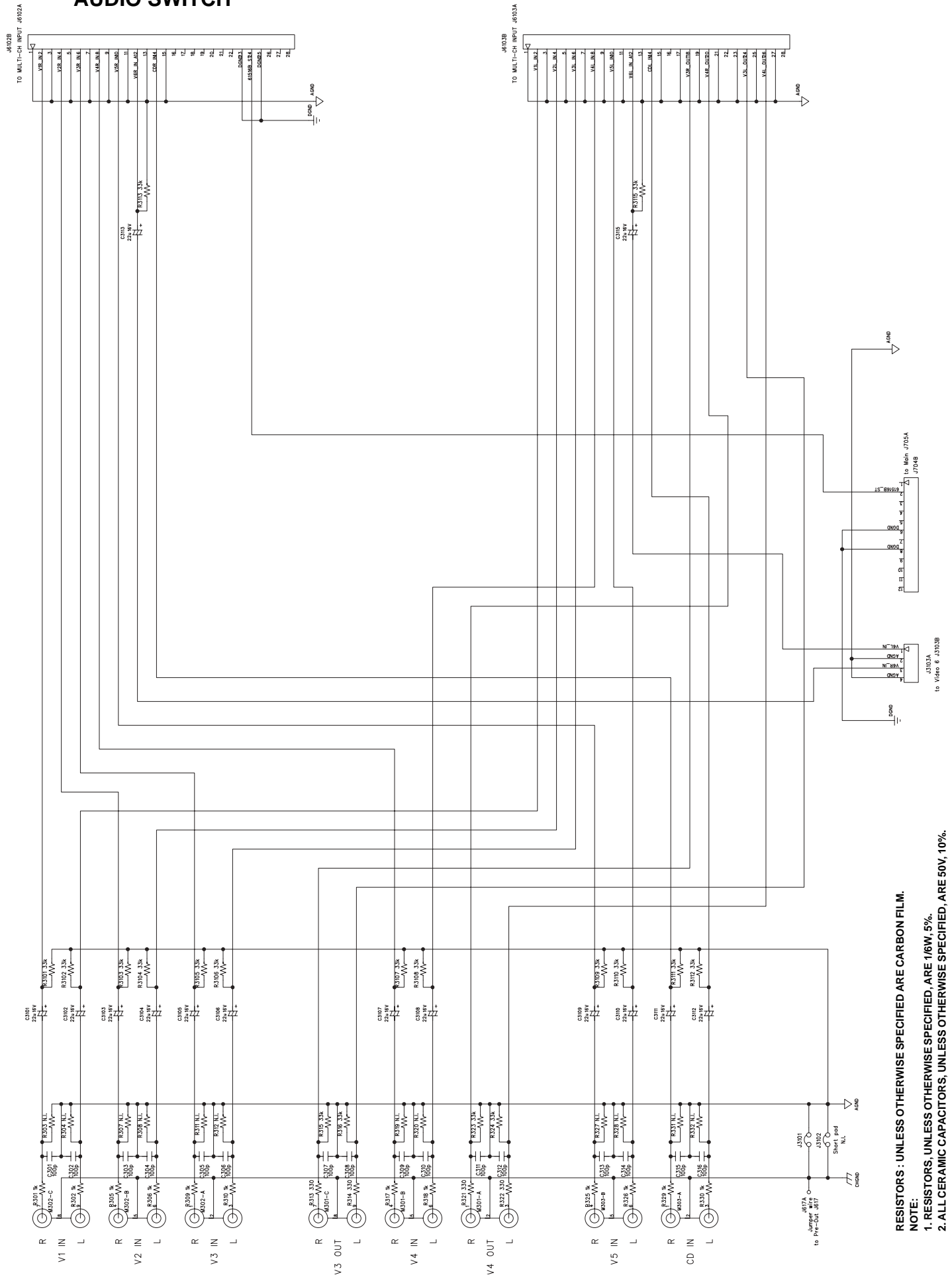
SPEAKER TERMINAL BOARD



POWER SWITCH / TRIGGER BOARD

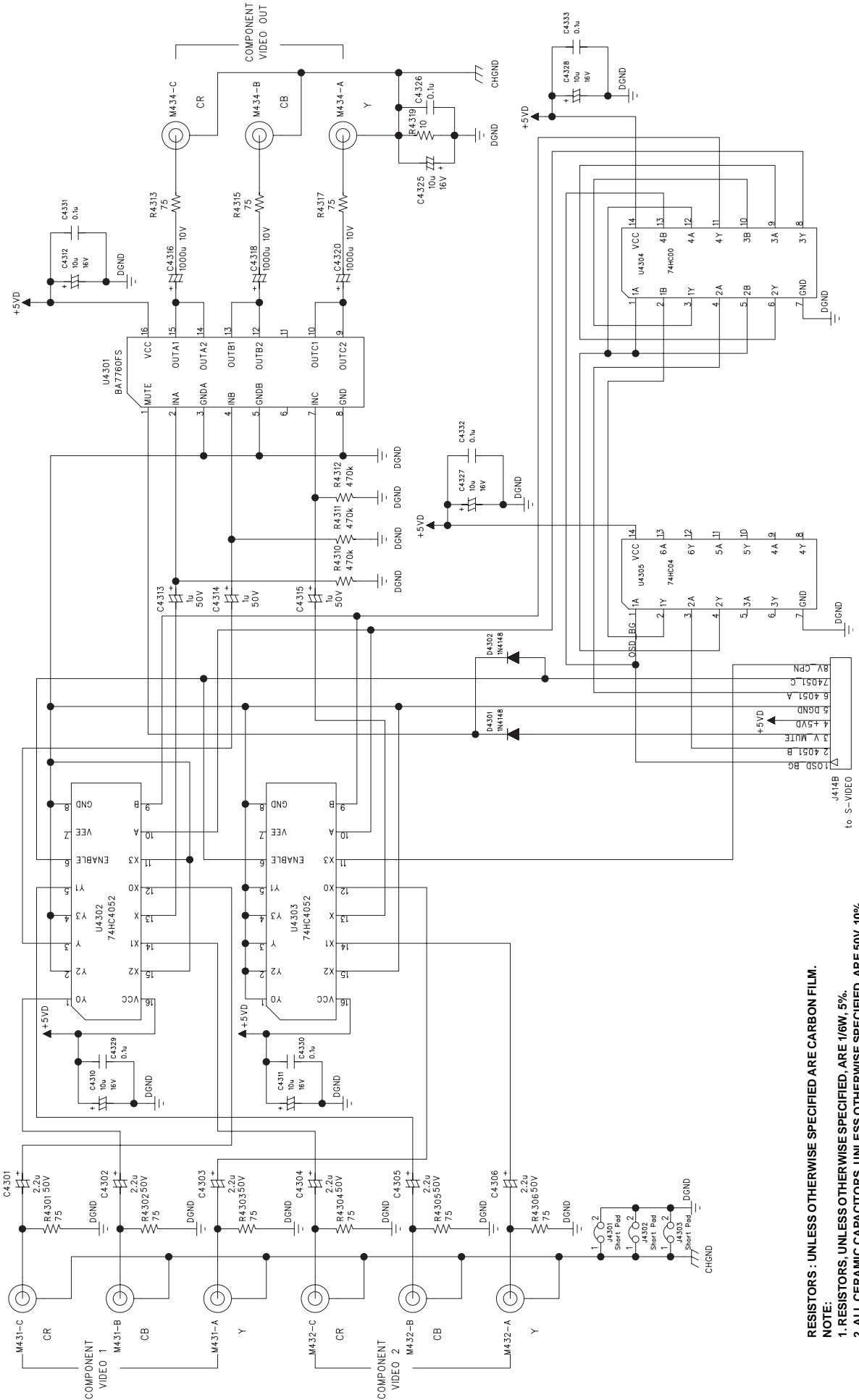


SCHEMATIC DIAGRAM AUDIO SWITCH



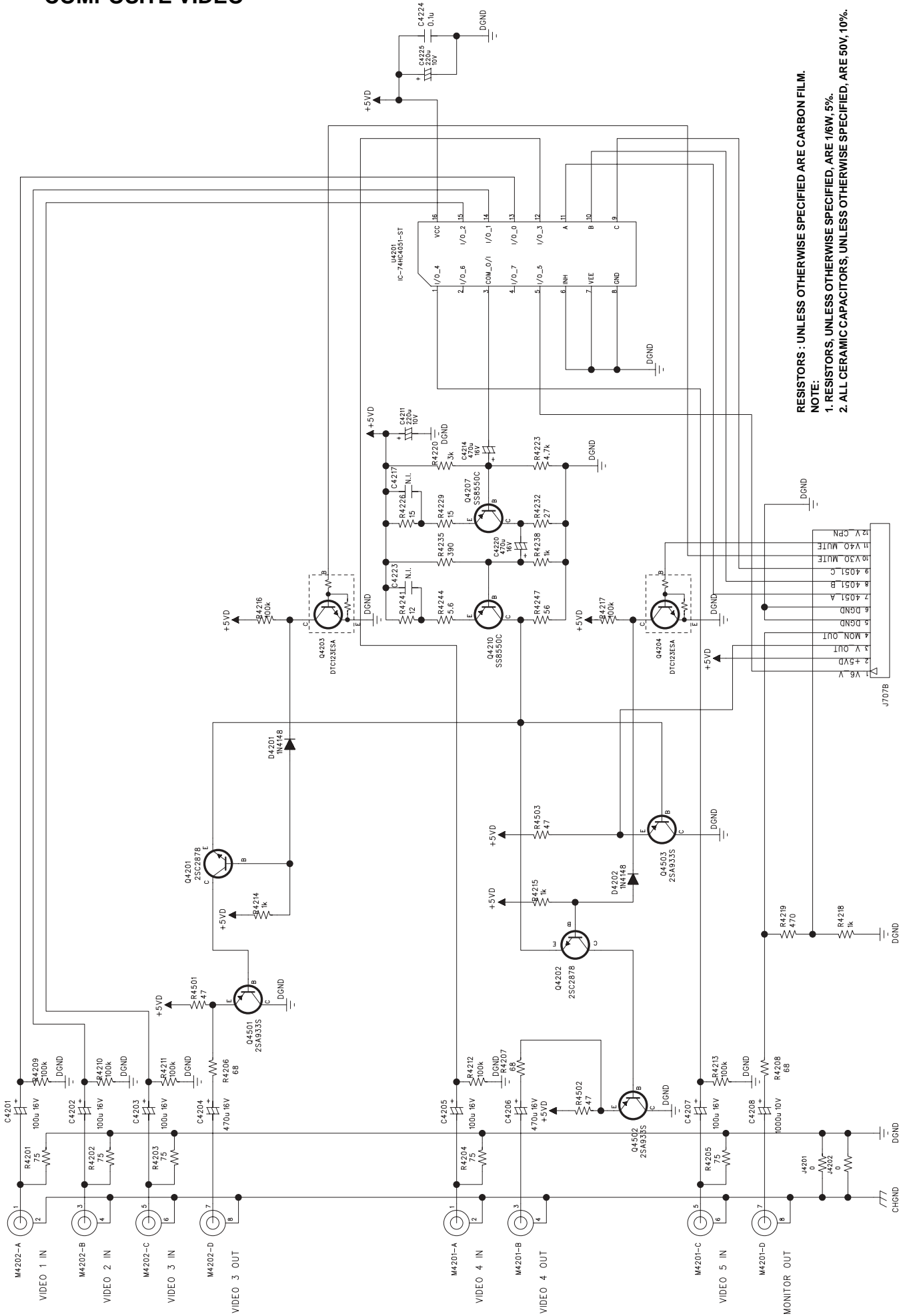
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPONENT VIDEO



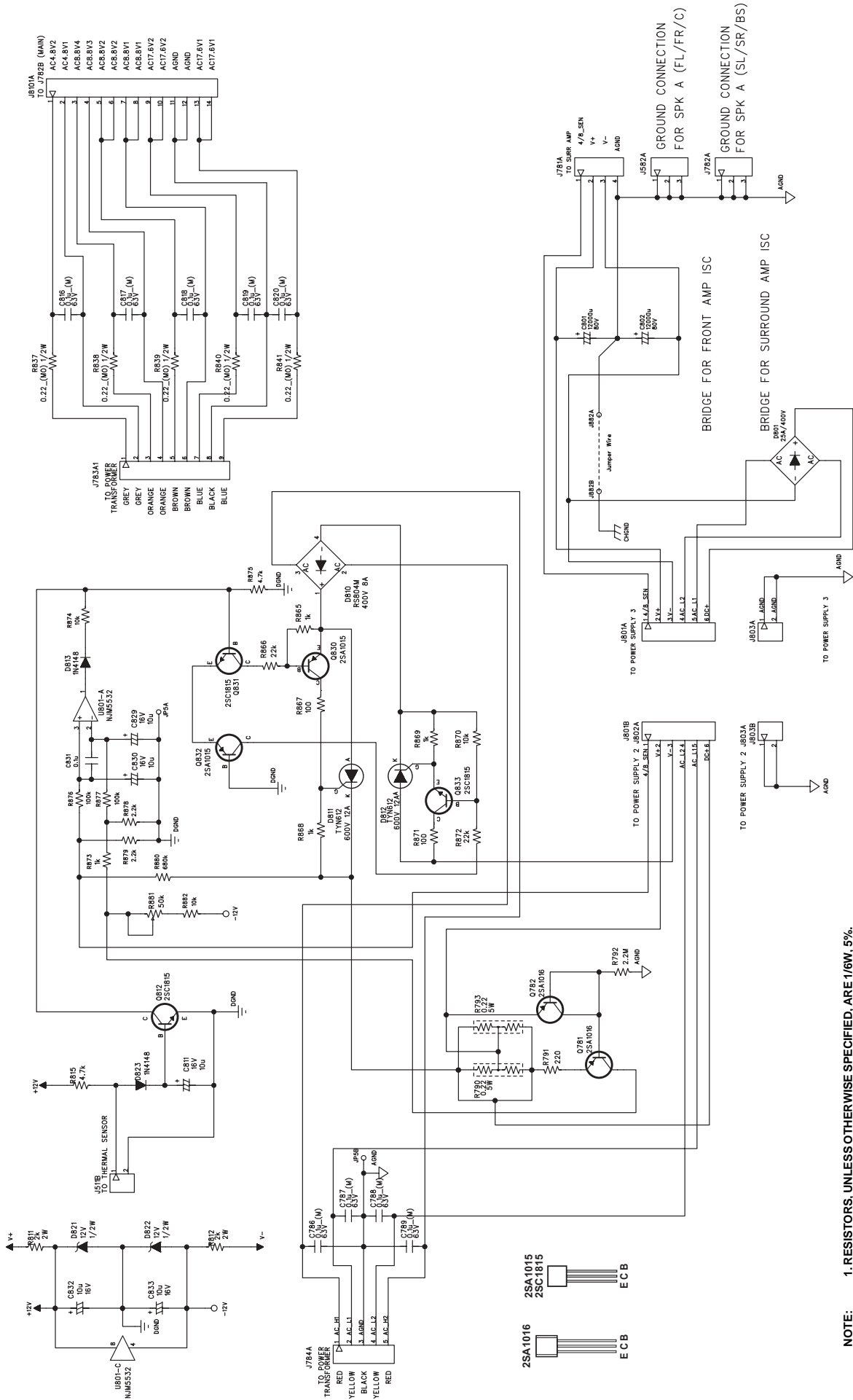
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
 NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

COMPOSITE VIDEO



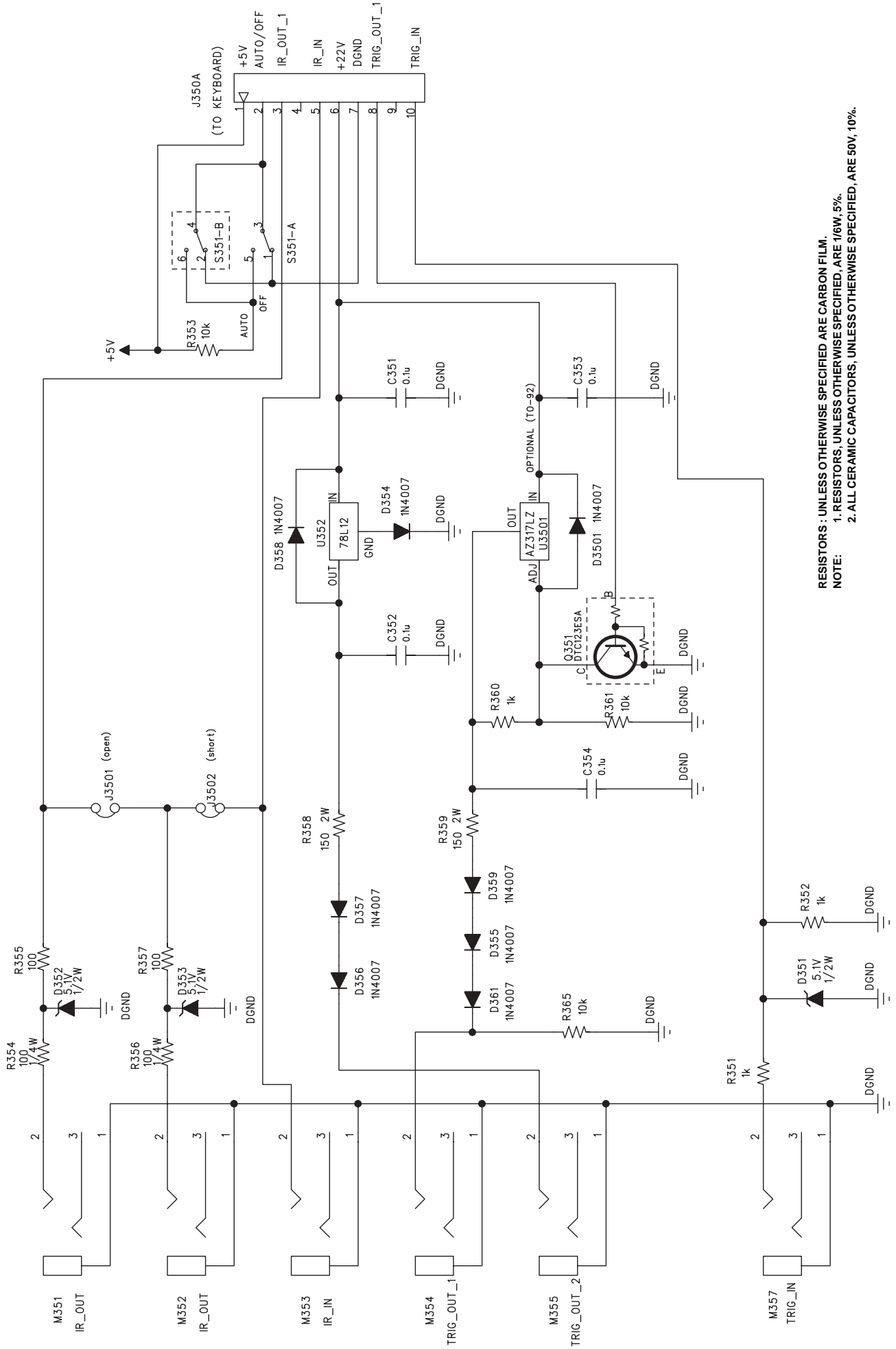
RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
 NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

POWER SUPPLY (SECONDARY)



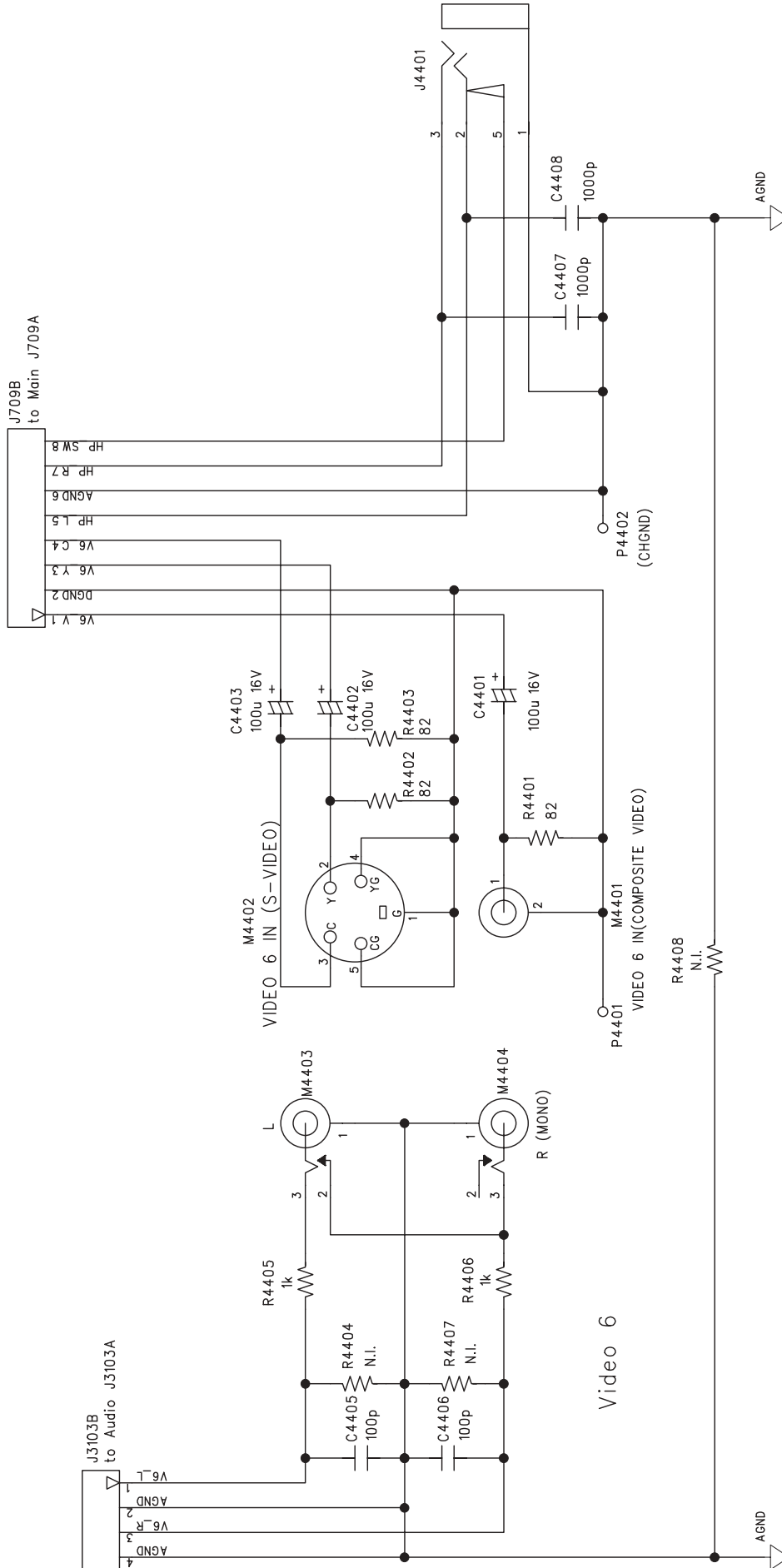
NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. COMPONENTS MARKED Δ ARE SAFETY CRITICAL PARTS.

TRIGGER



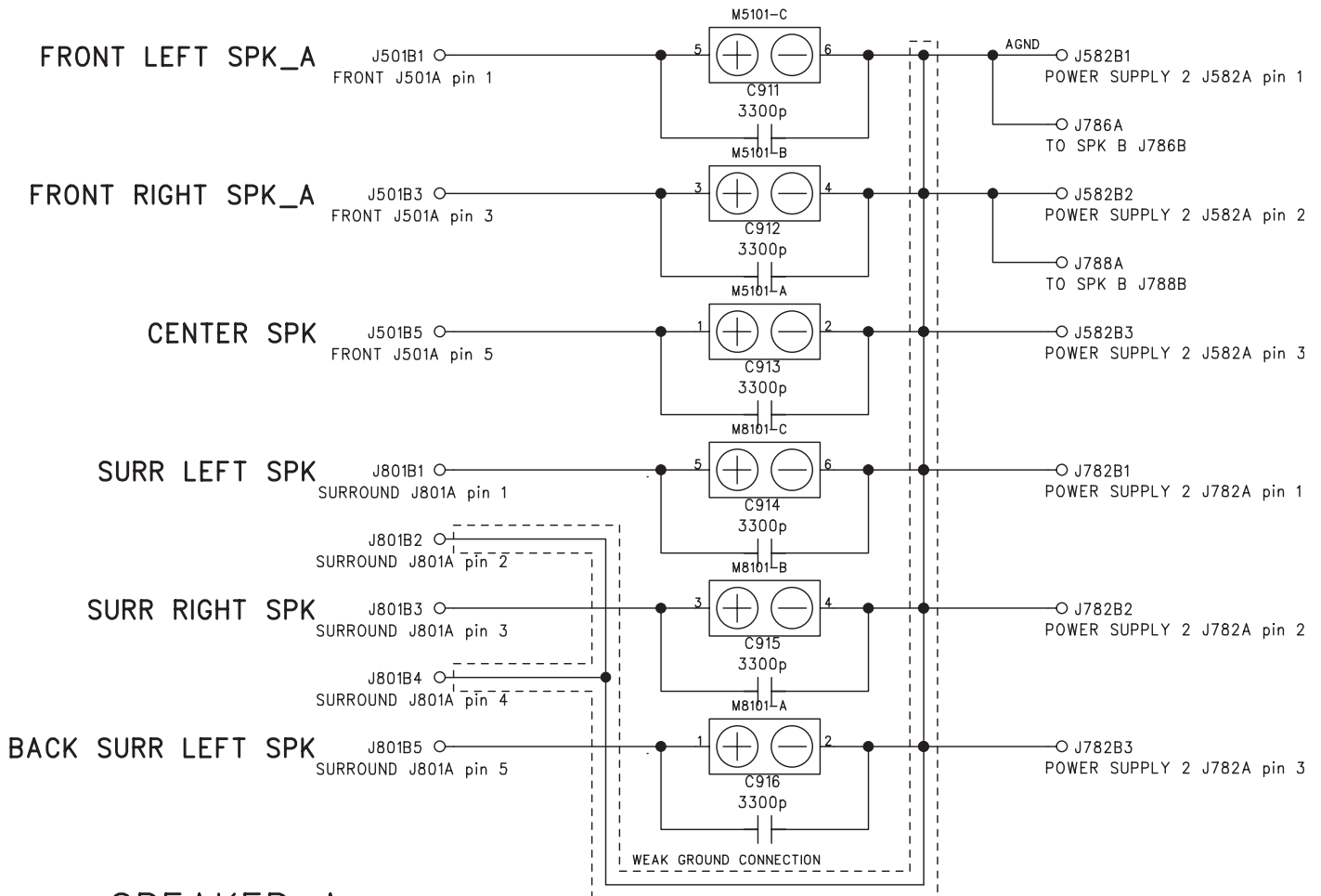
RESISTORS: UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
 NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

VIDEO 6

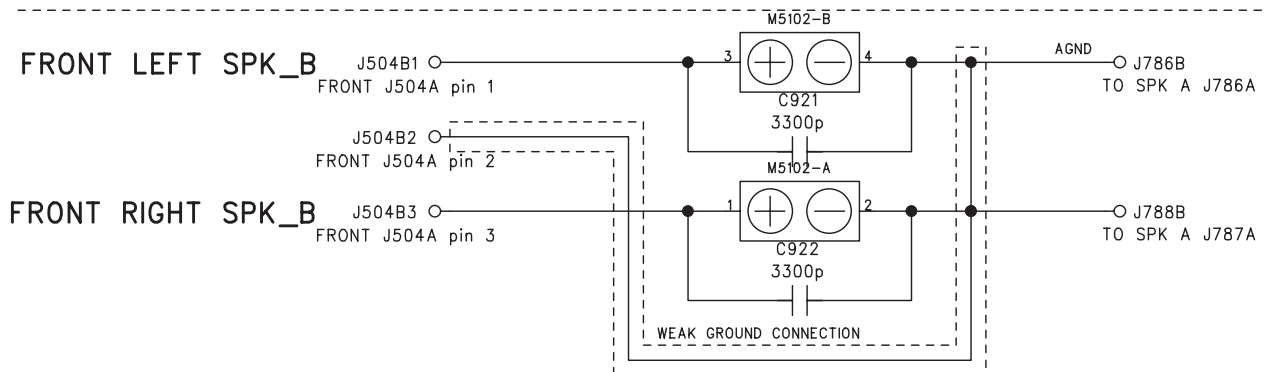


RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
 NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

SPEAKER A & B

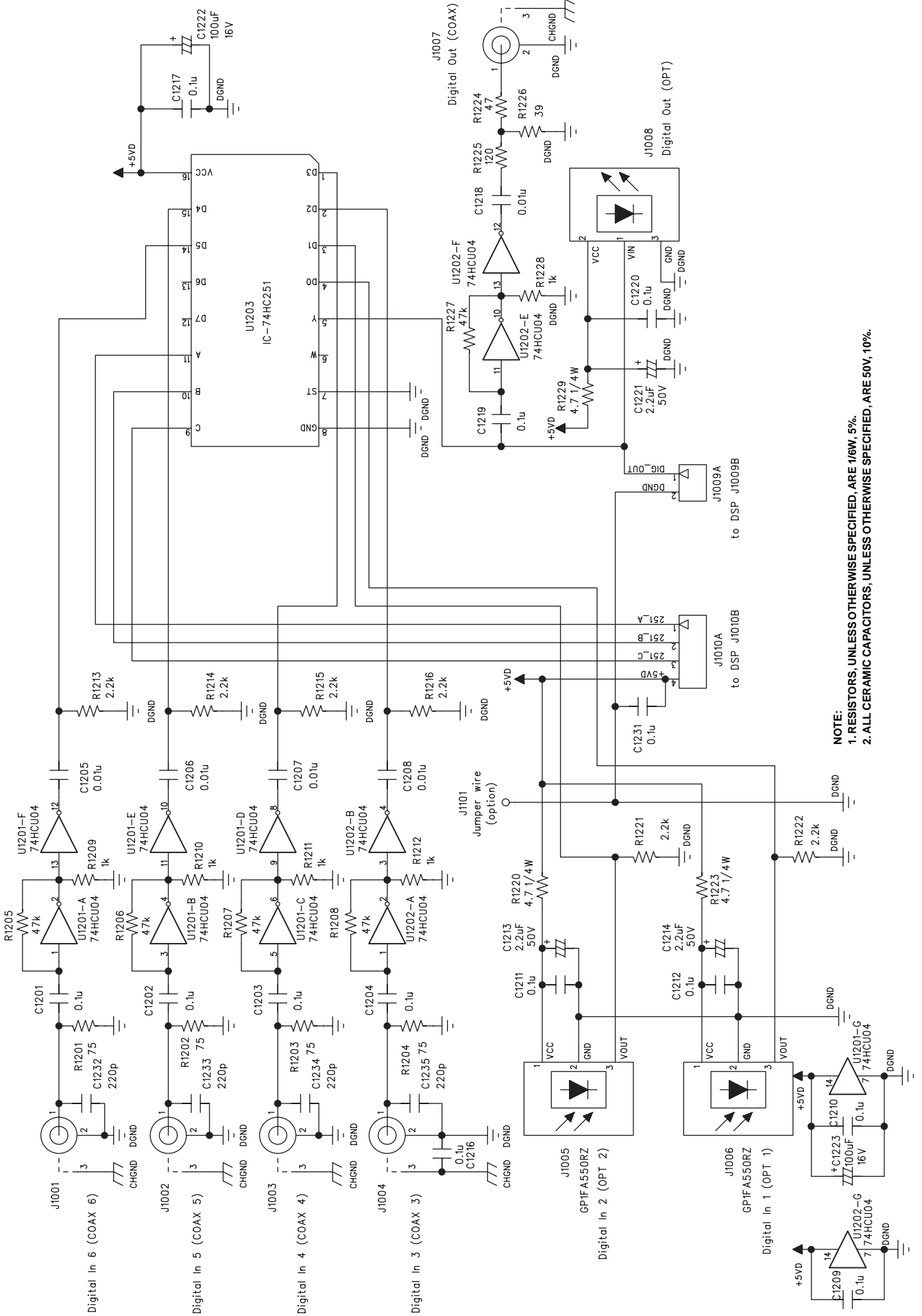


SPEAKER A

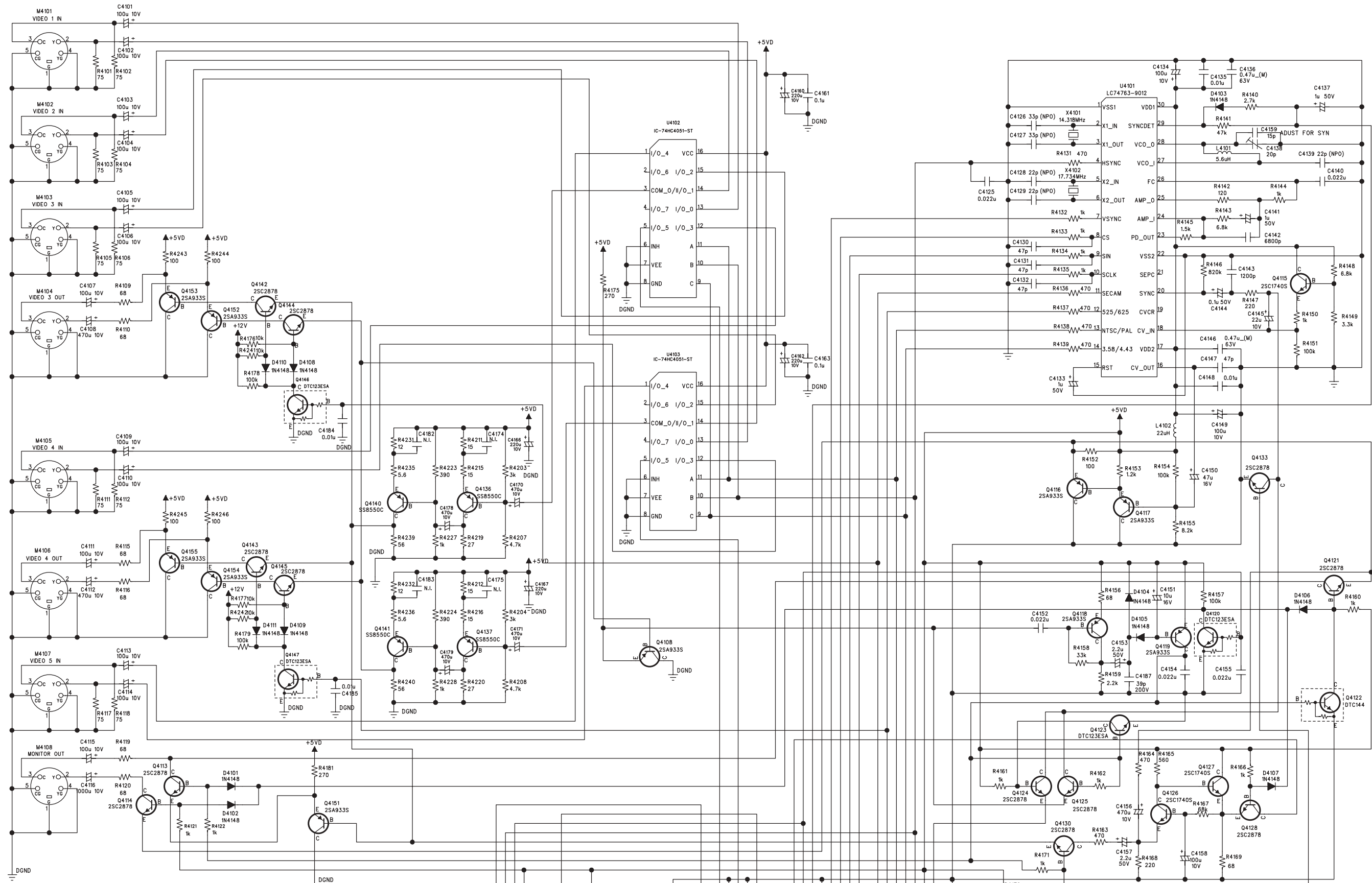


SPEAKER B

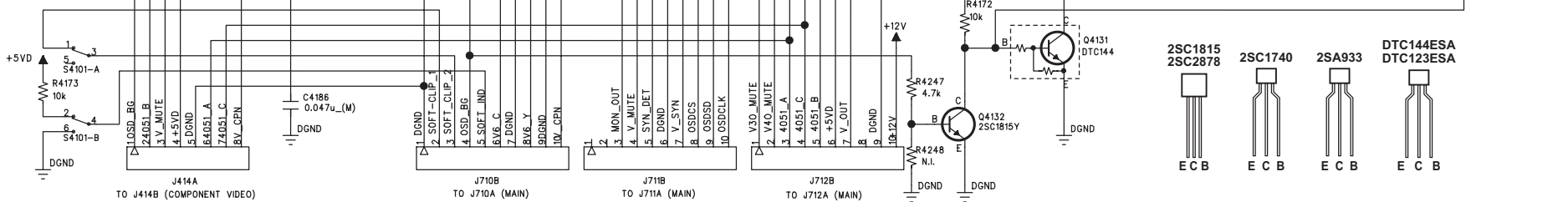
DIGITAL INPUT / OUTPUT



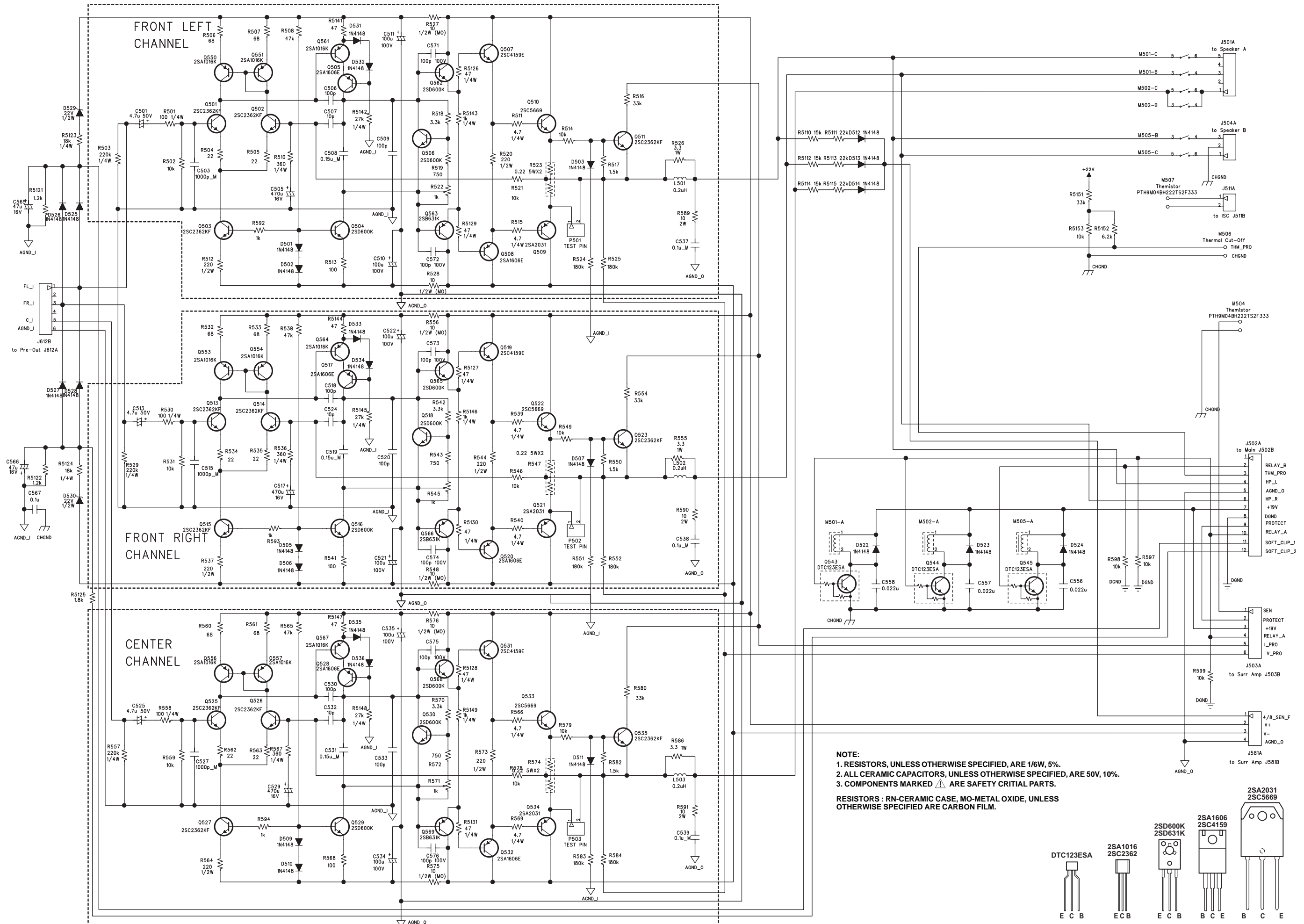
S-VIDEO




RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
 NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

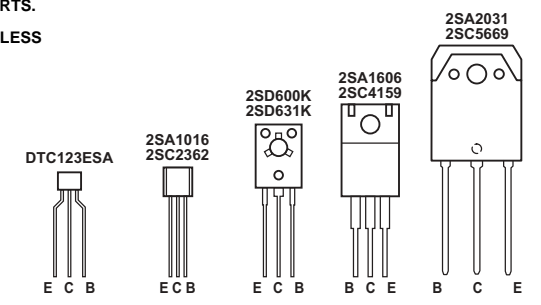


FRONT / CENTER CHANNEL POWER AMPLIFIER

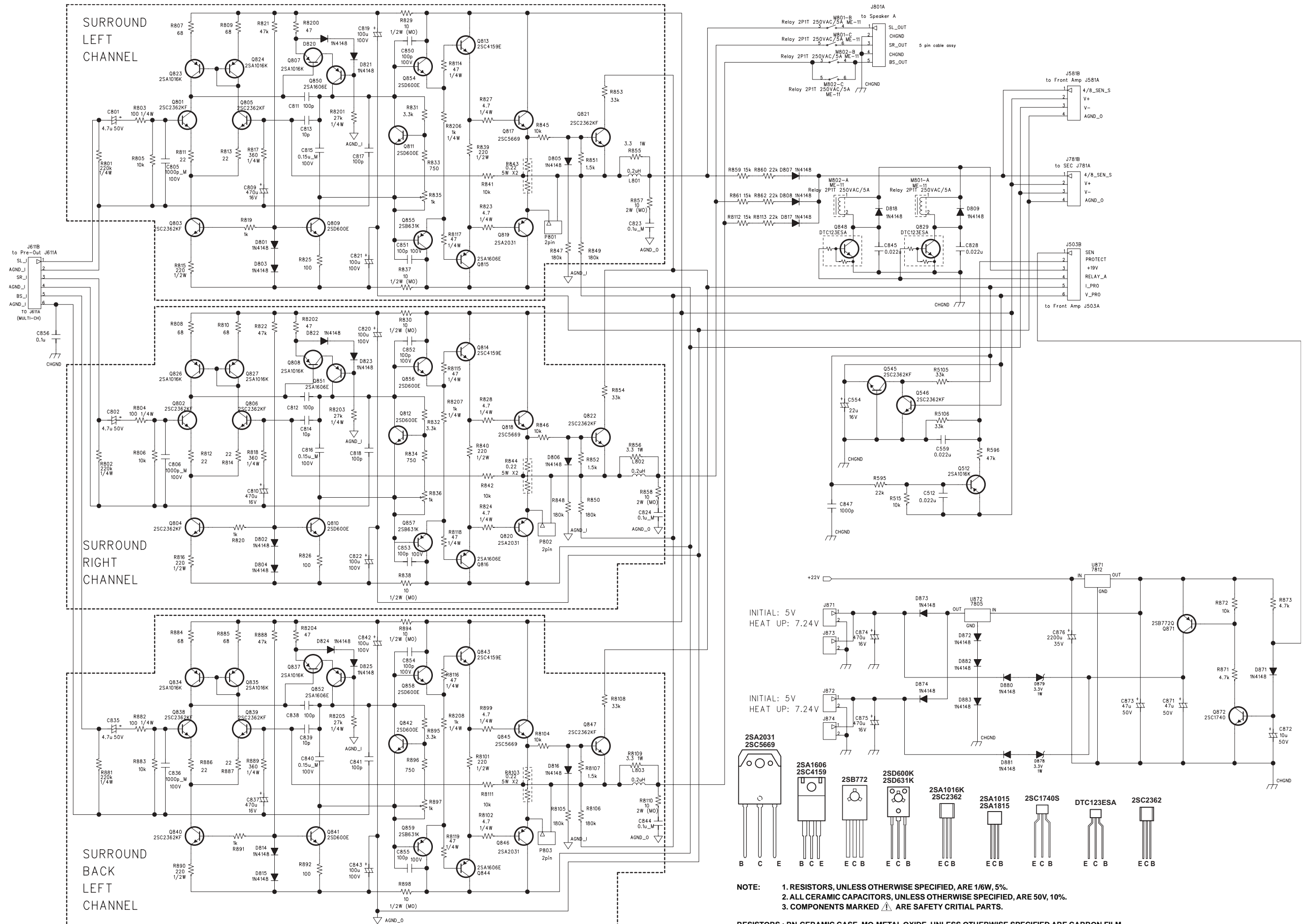


NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.
 3. COMPONENTS MARKED  ARE SAFETY CRITICAL PARTS.

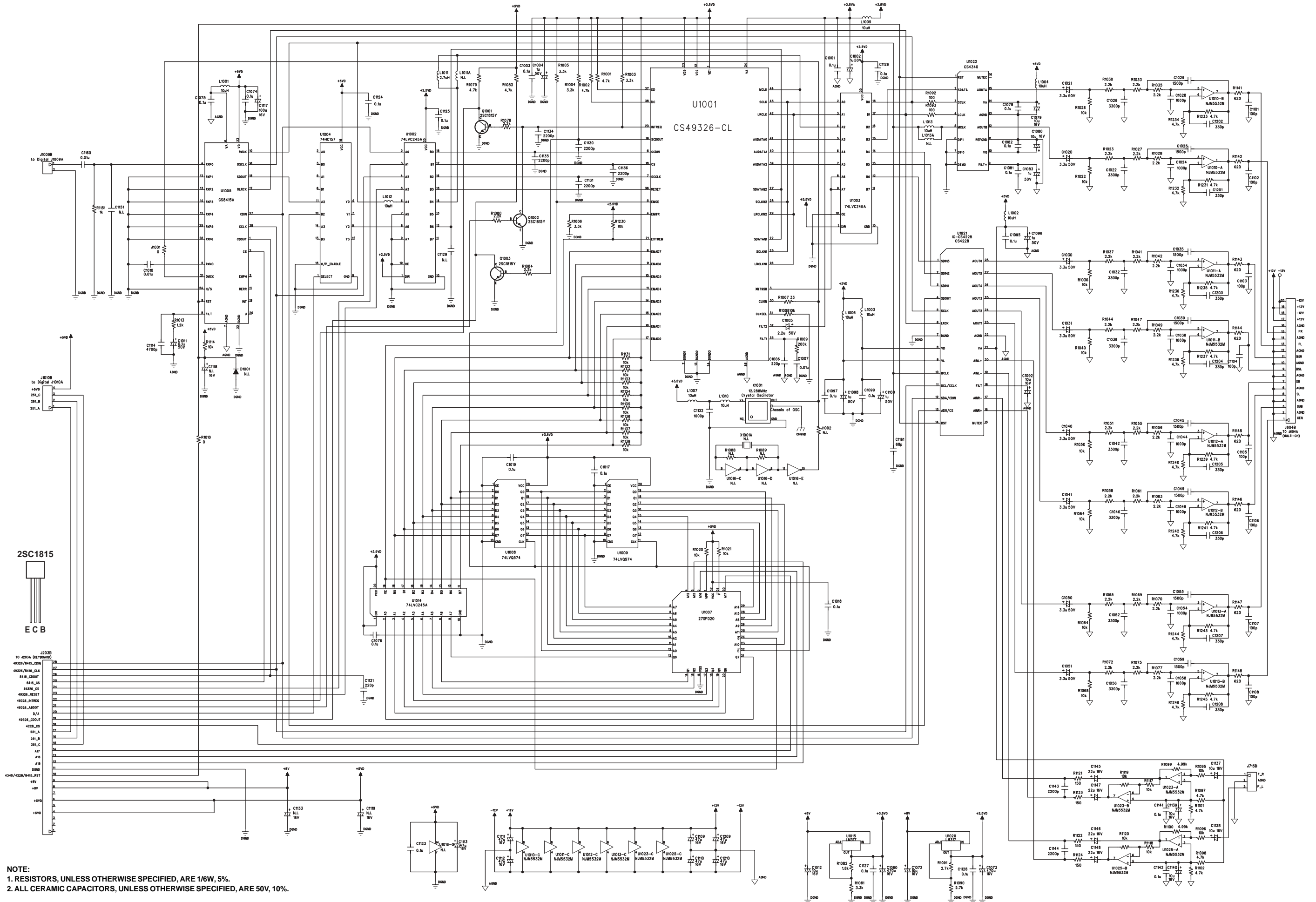
RESISTORS : RN-CERAMIC CASE, MO-METAL OXIDE, UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.



SURROUND CHANNEL POWER AMPLIFIER

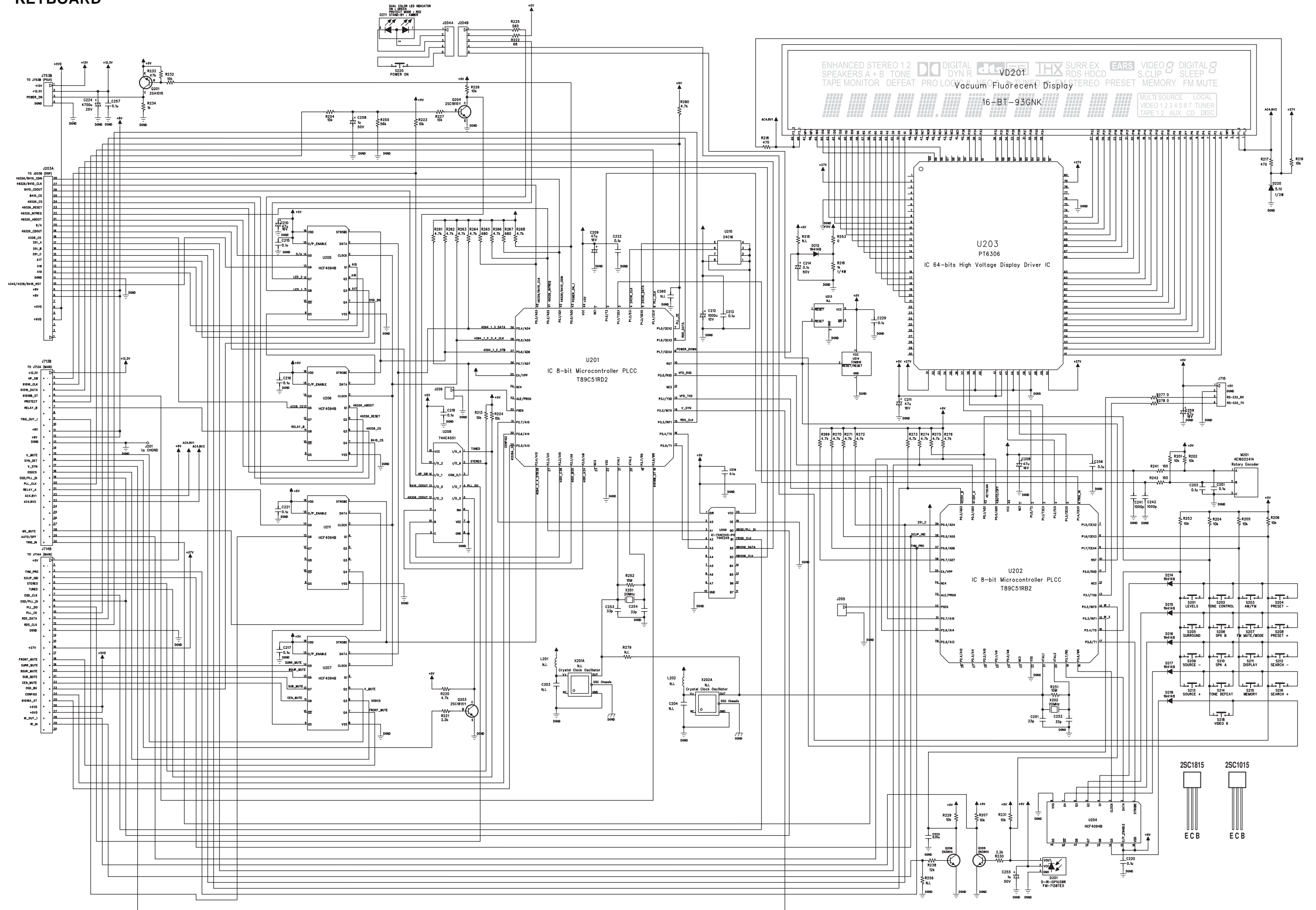


DSP



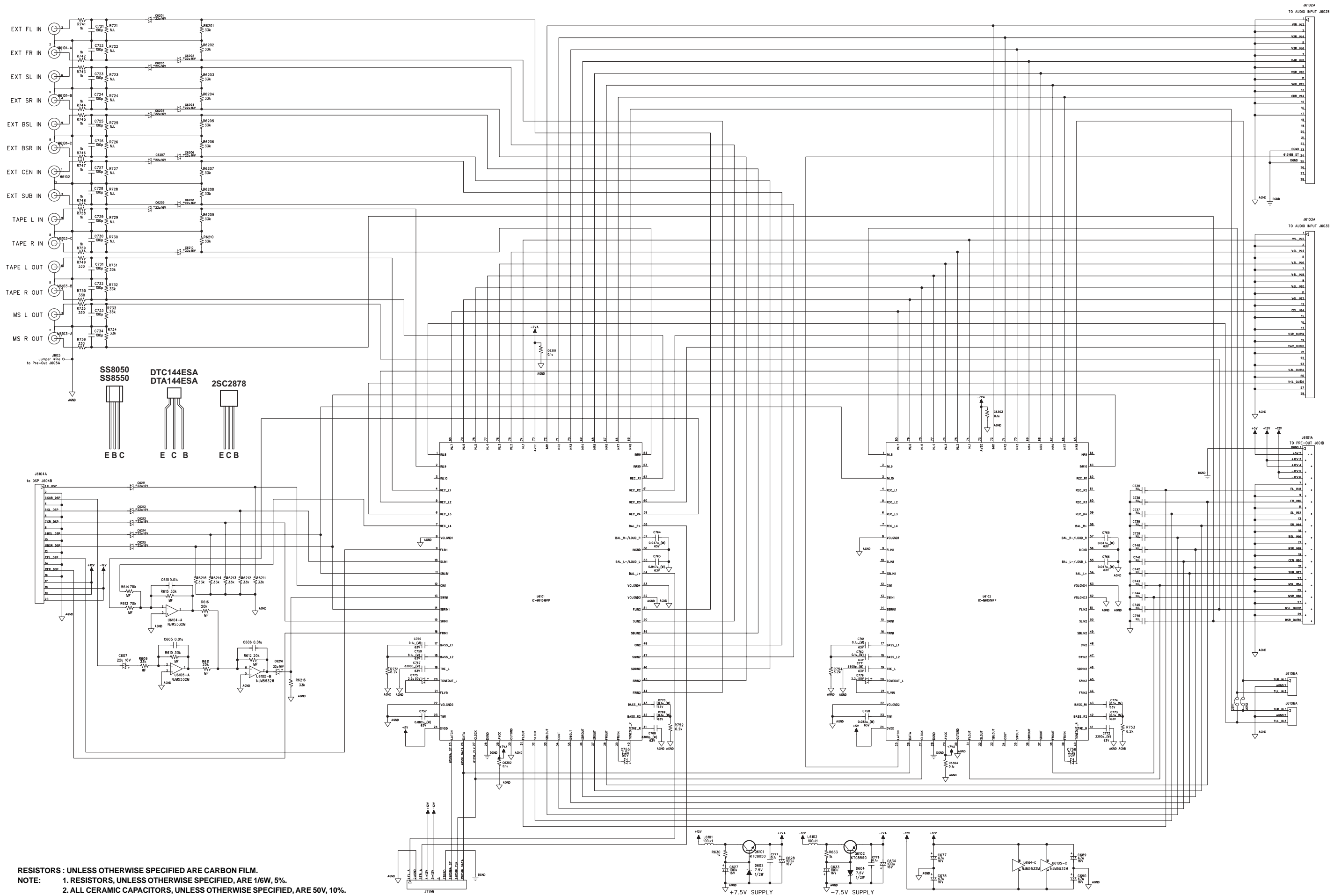
NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

KEYBOARD



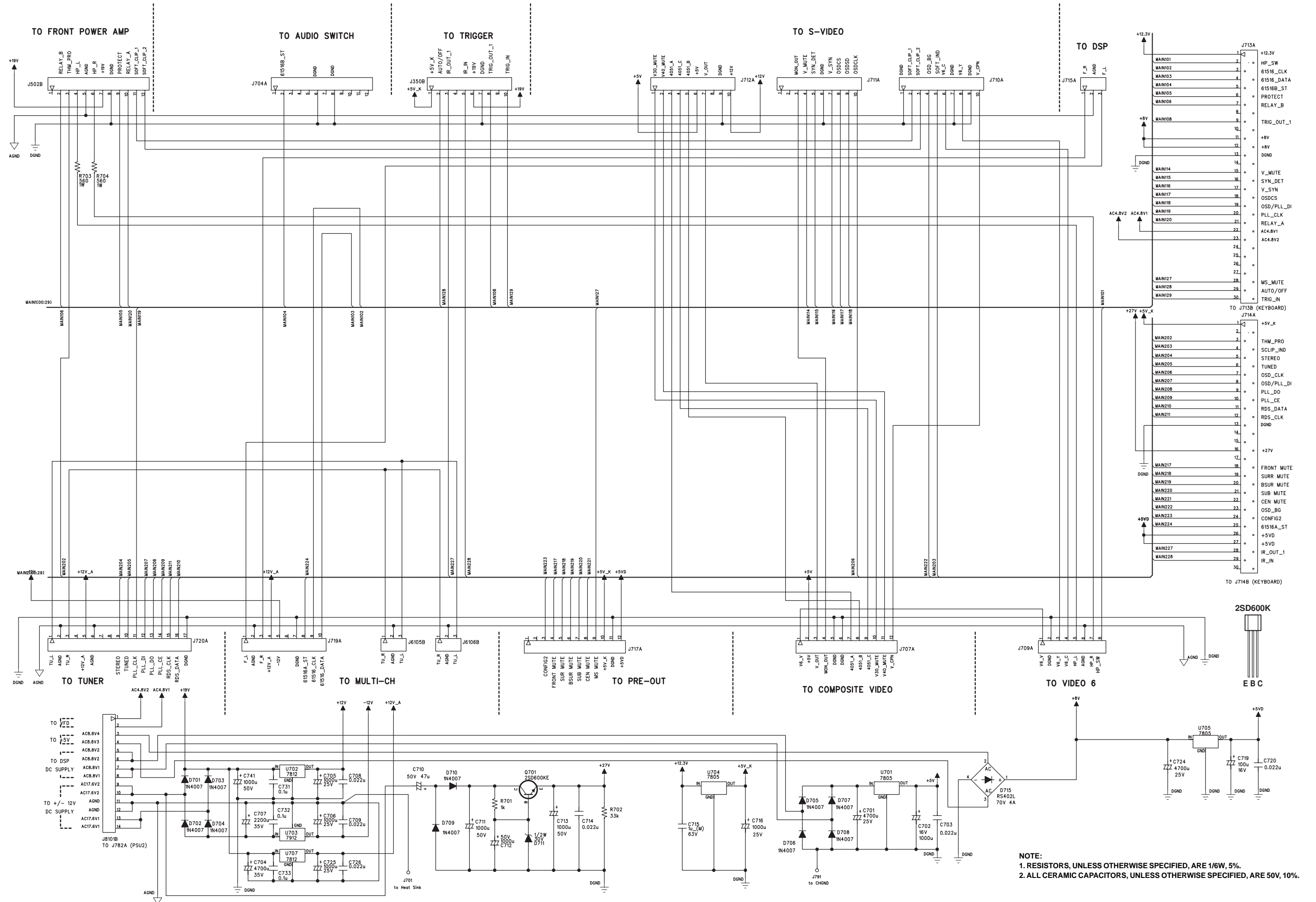
NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/8W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 5%.

MULTI-CHANNEL



RESISTORS : UNLESS OTHERWISE SPECIFIED ARE CARBON FILM.
 NOTE: 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/6W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

MAIN BOARD



NOTE:
 1. RESISTORS, UNLESS OTHERWISE SPECIFIED, ARE 1/8W, 5%.
 2. ALL CERAMIC CAPACITORS, UNLESS OTHERWISE SPECIFIED, ARE 50V, 10%.

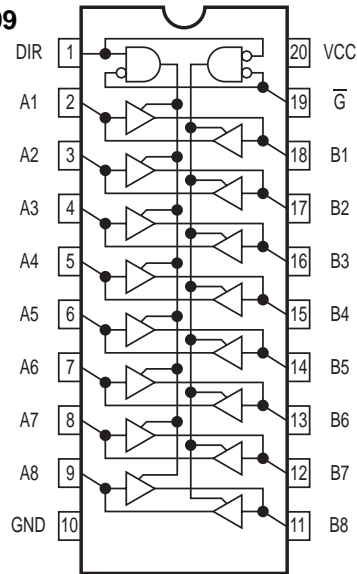
IC BLOCK DIAGRAM

74LVC245

DSP BOARD: U1002, U1003, U1014

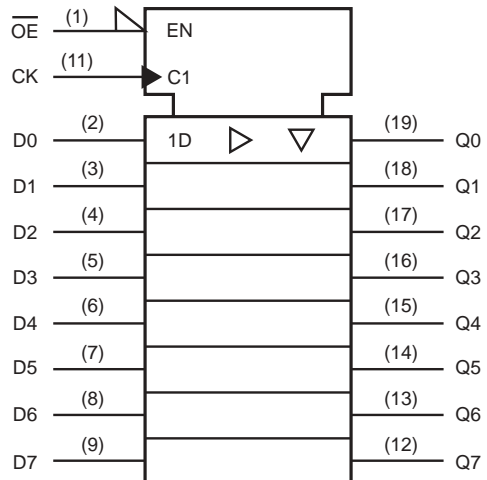
74VHC245

KEYBOARD: U209



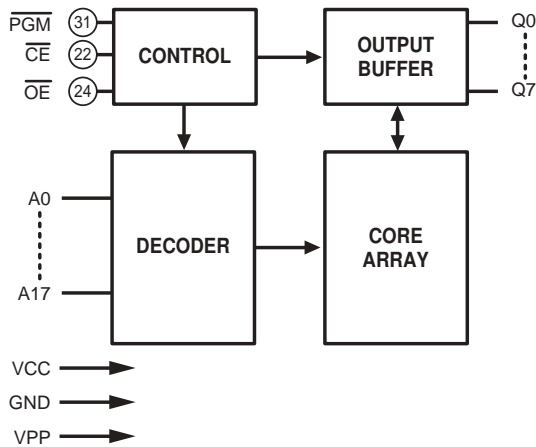
74LVQ574

DSP BOARD: U1008, U1009



W27C020

DSP BOARD: U1007



NJM5532

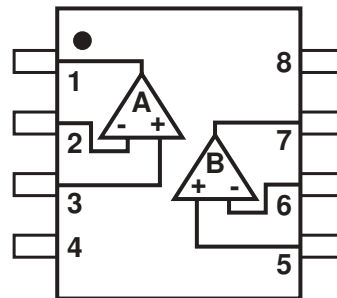
DSP BOARD: U1010~U1013, U1023 & U1025

MULTI-CHANNEL: U6104~U6107

PRE-OUT BOARD: U609~U613

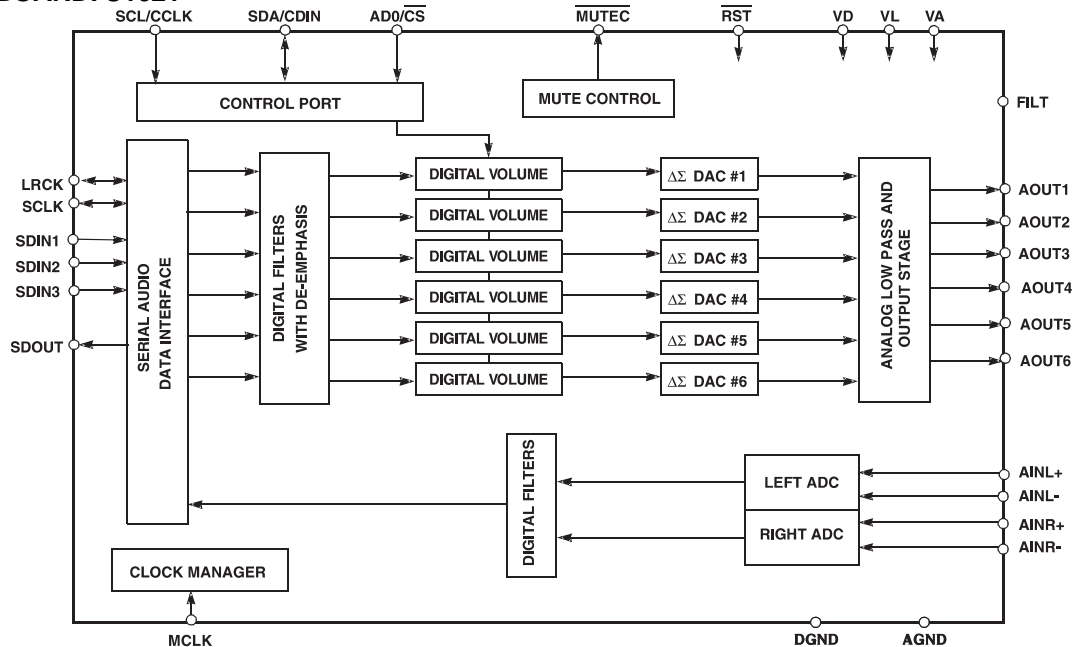
AUDIO BOARD: U305

ISC BOARD: U801

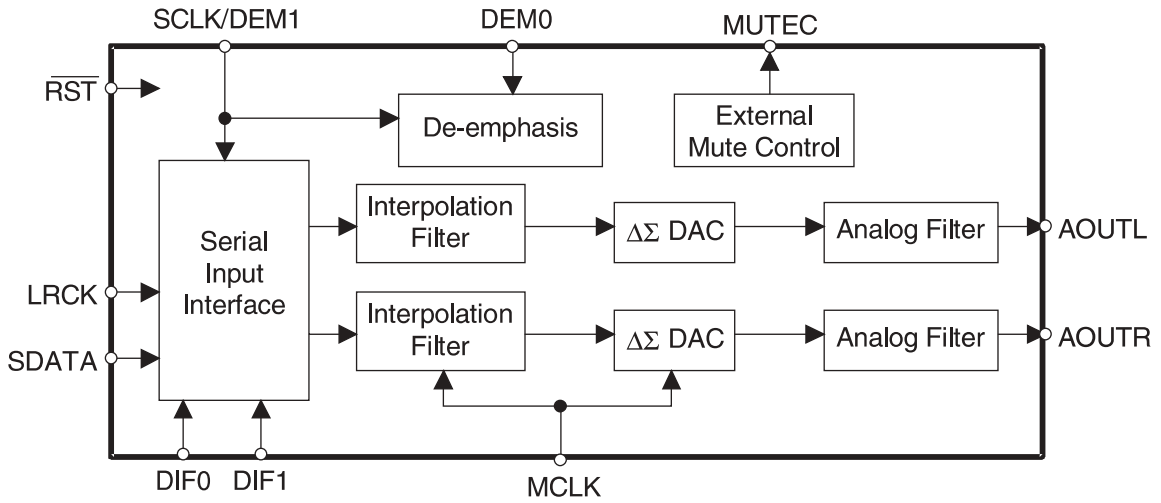


CS4228AKS

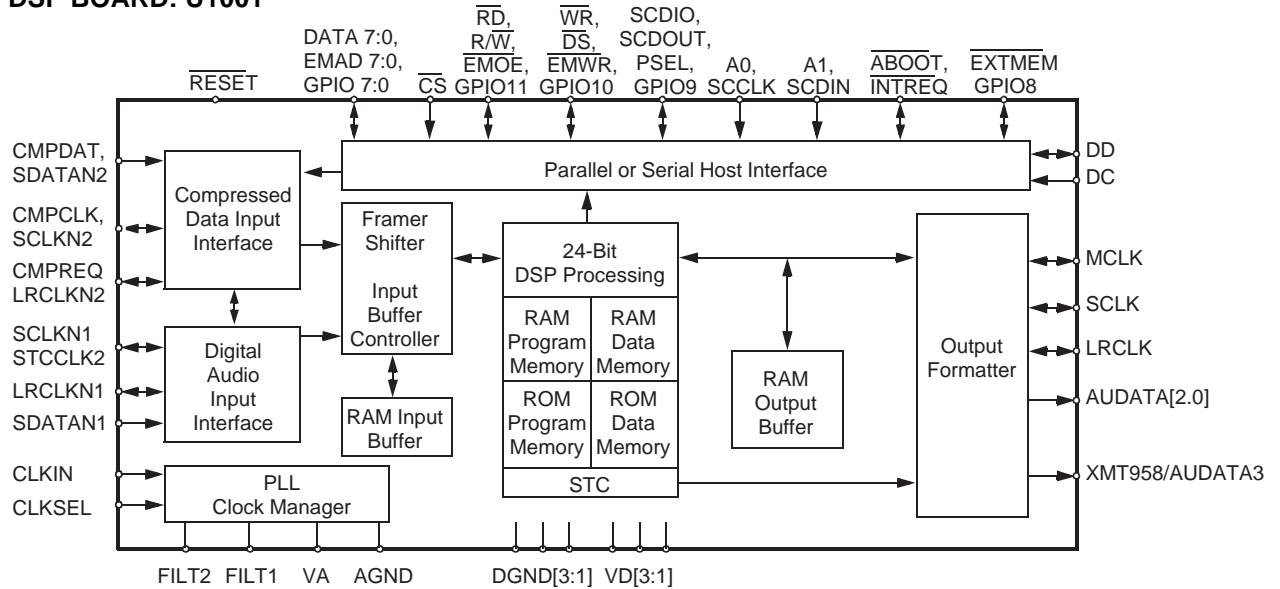
DSP BOARD: U1021



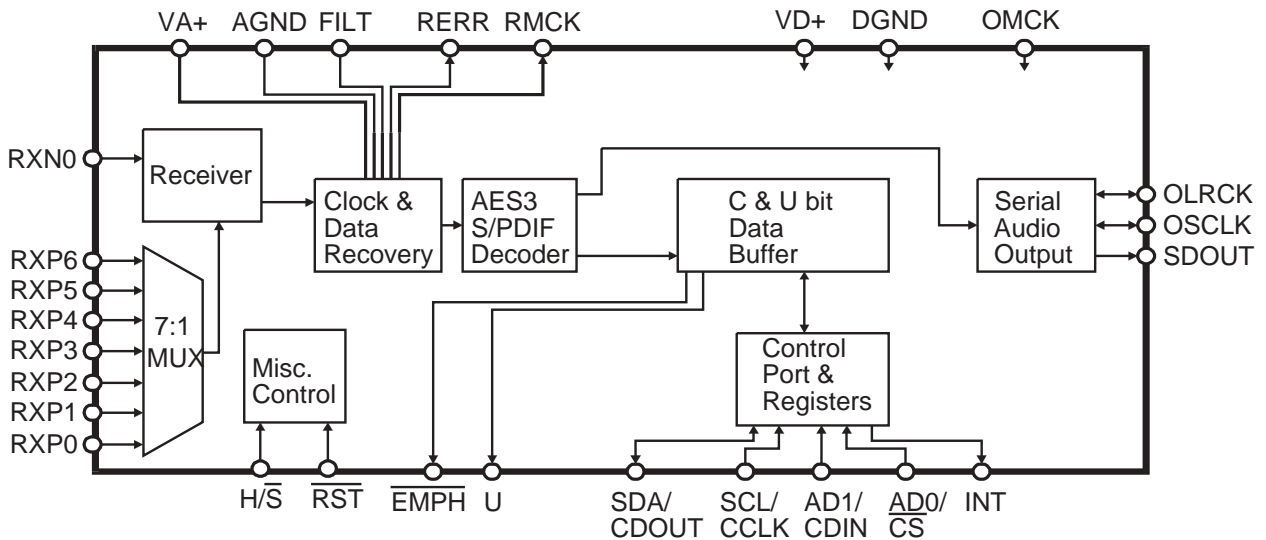
CS4340
DSP BOARD: U1022



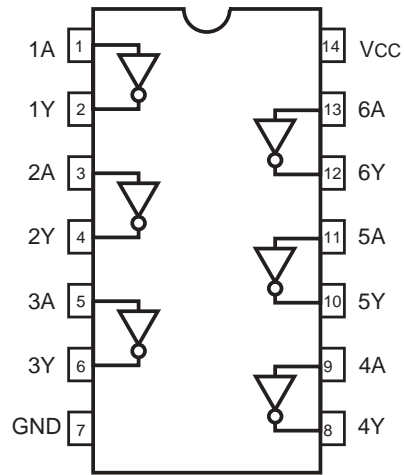
CS49326
DSP BOARD: U1001



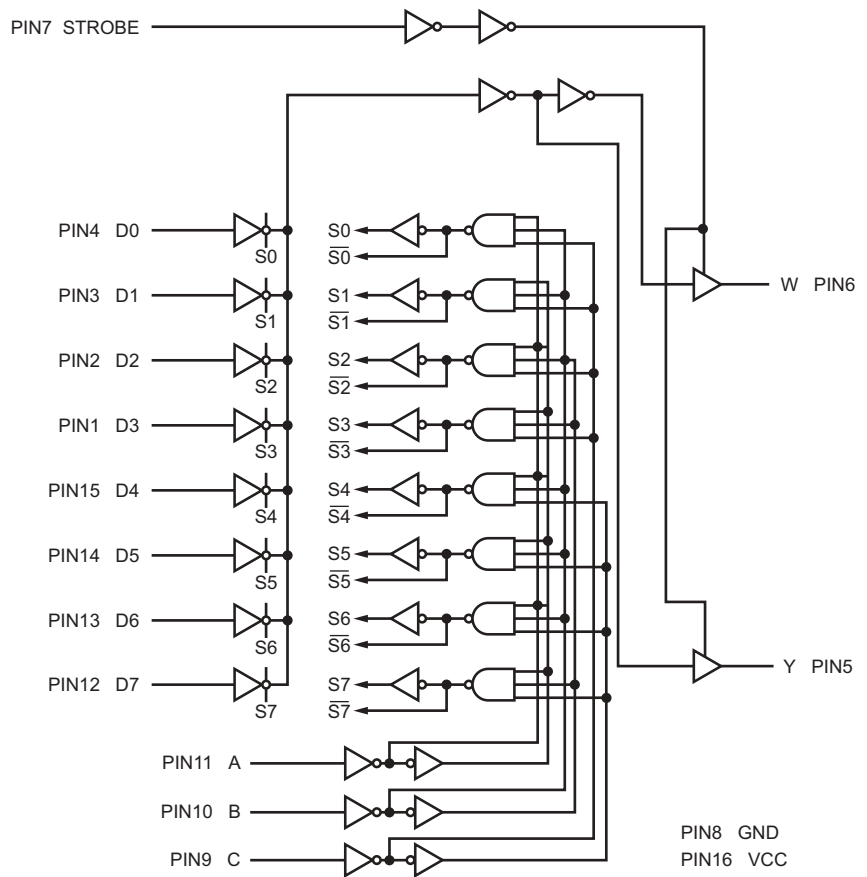
CS8415A
DSP BOARD: U1005



74HCU04
DIGITAL BOARD: U1201 & U1202

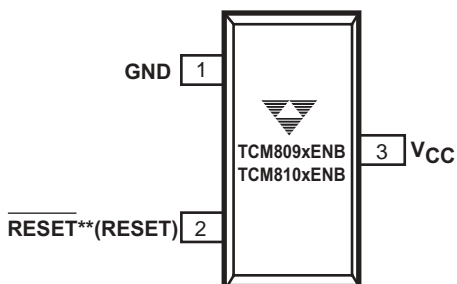


74HC251
DIGITAL BOARD: U1203

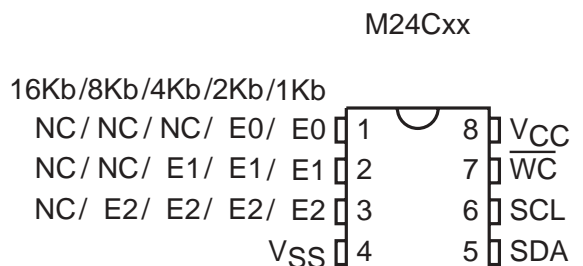


TCM810
KEYBOARD: U214

*3-Pin SOT-23B

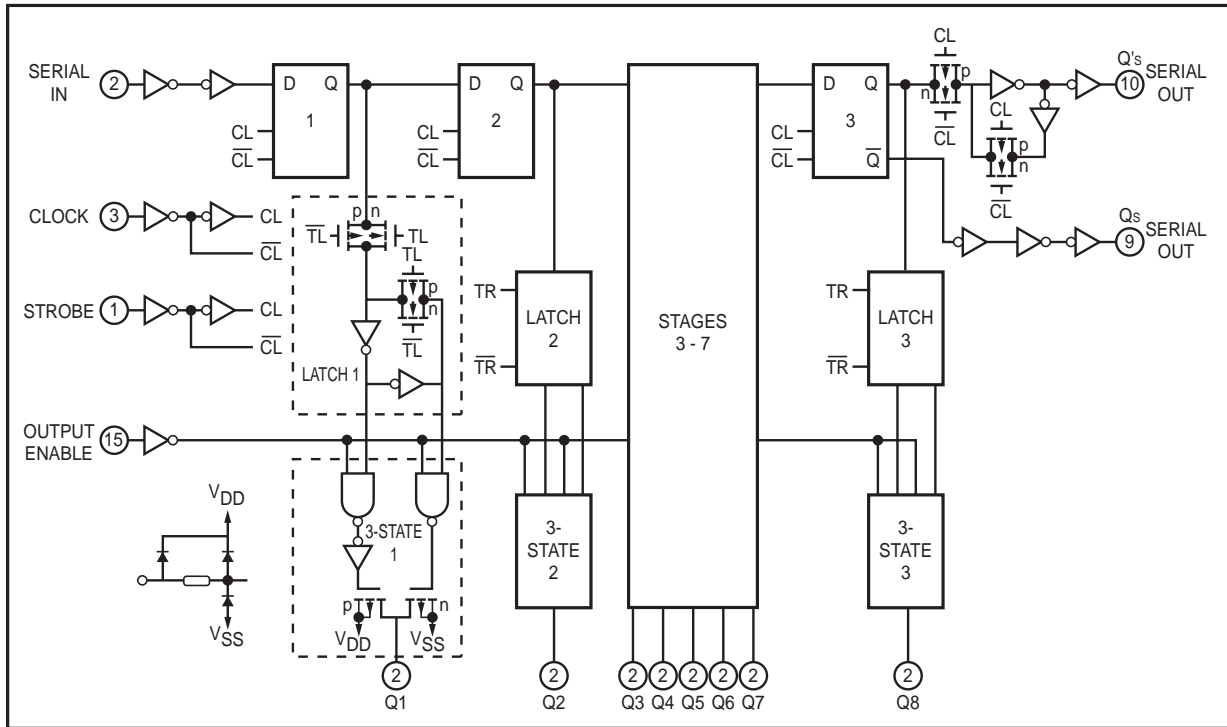


AT24C16
KEYBOARD: U210

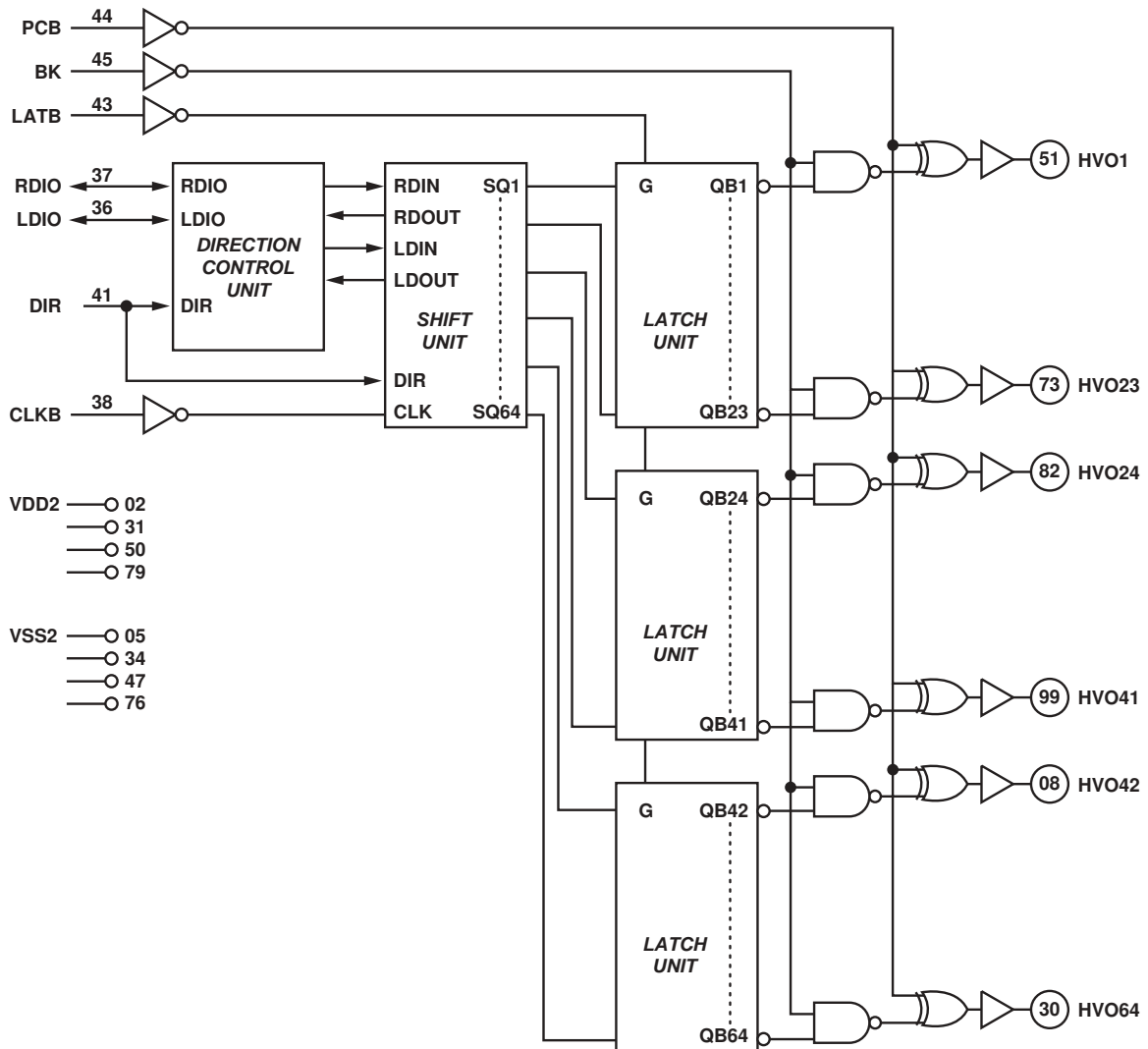


NOTE: *3-Pin SOT-23B is equivalent to JEDEC TO-236
** () is for TCM810

HCF4094B
KEYBOARD: U204~U207 & U211

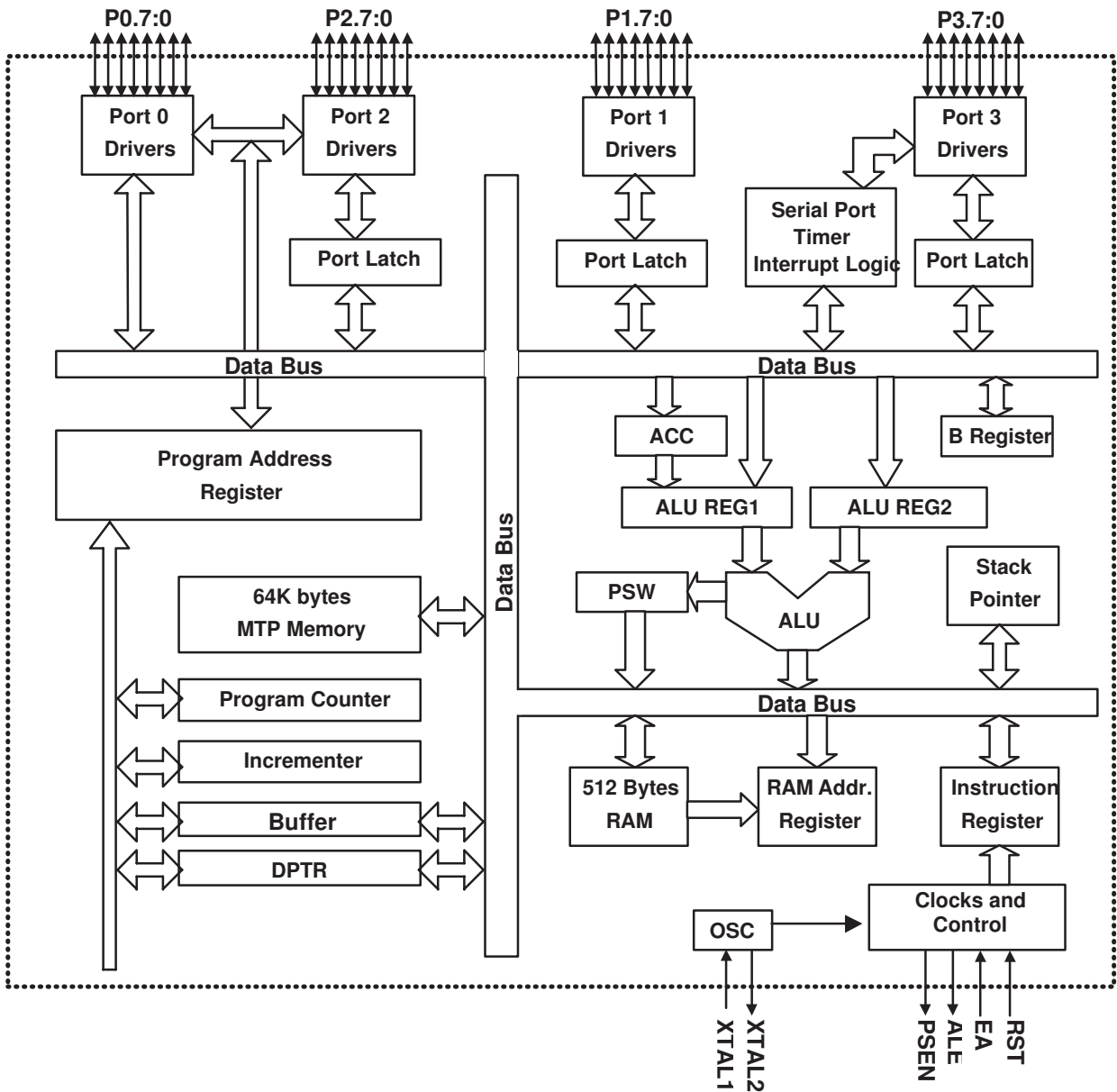


PT6306
KEYBOARD: U203



M6759

KEYBOARD: U201 & U202

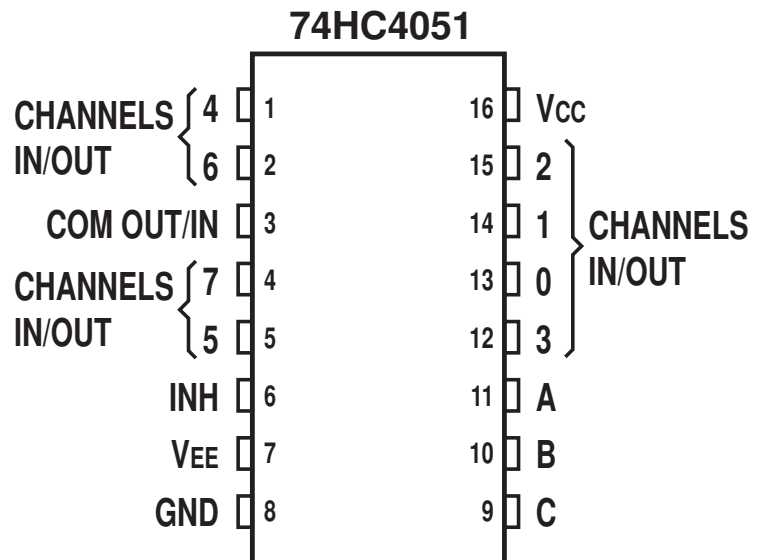


74HC4051

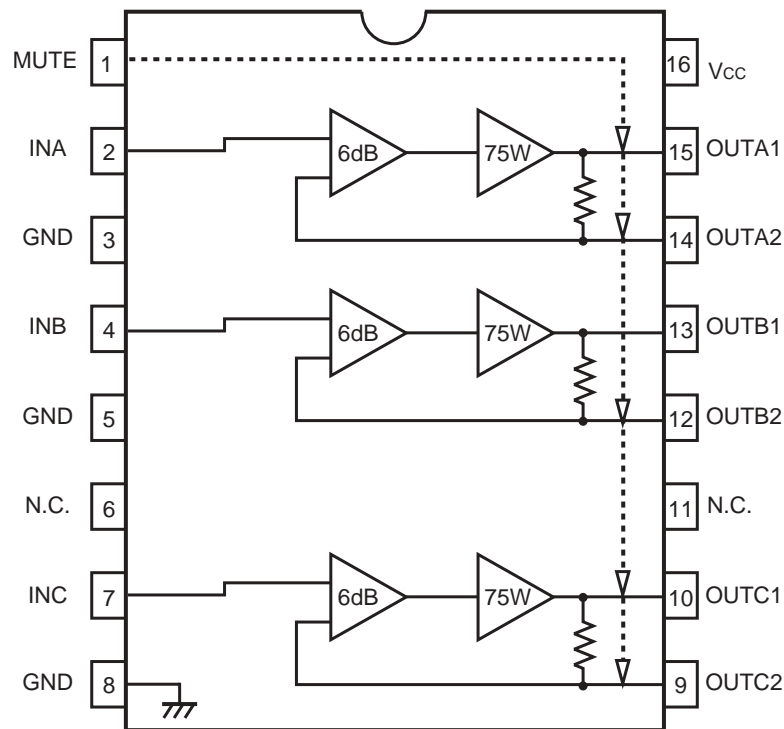
KEYBOARD: U208

S-VIDEO BOARD: U4102 & U4103

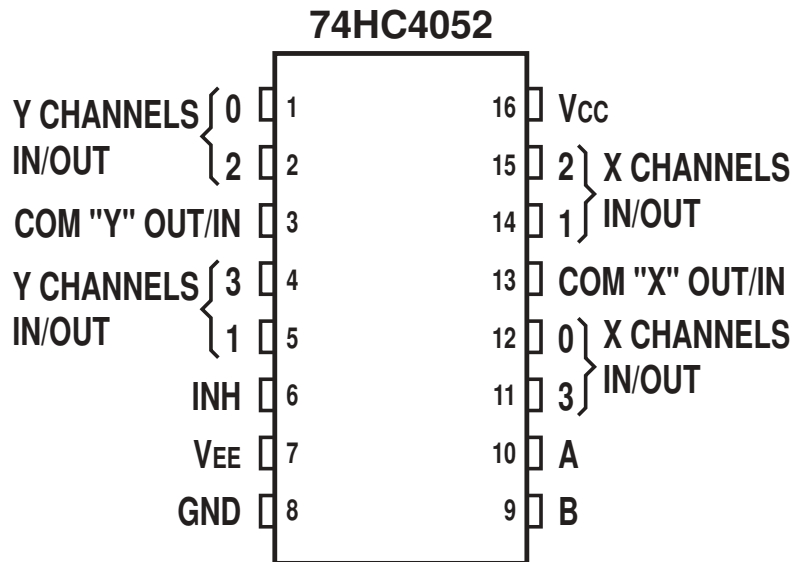
COMPOSITE VIDEO BOARD: U4201



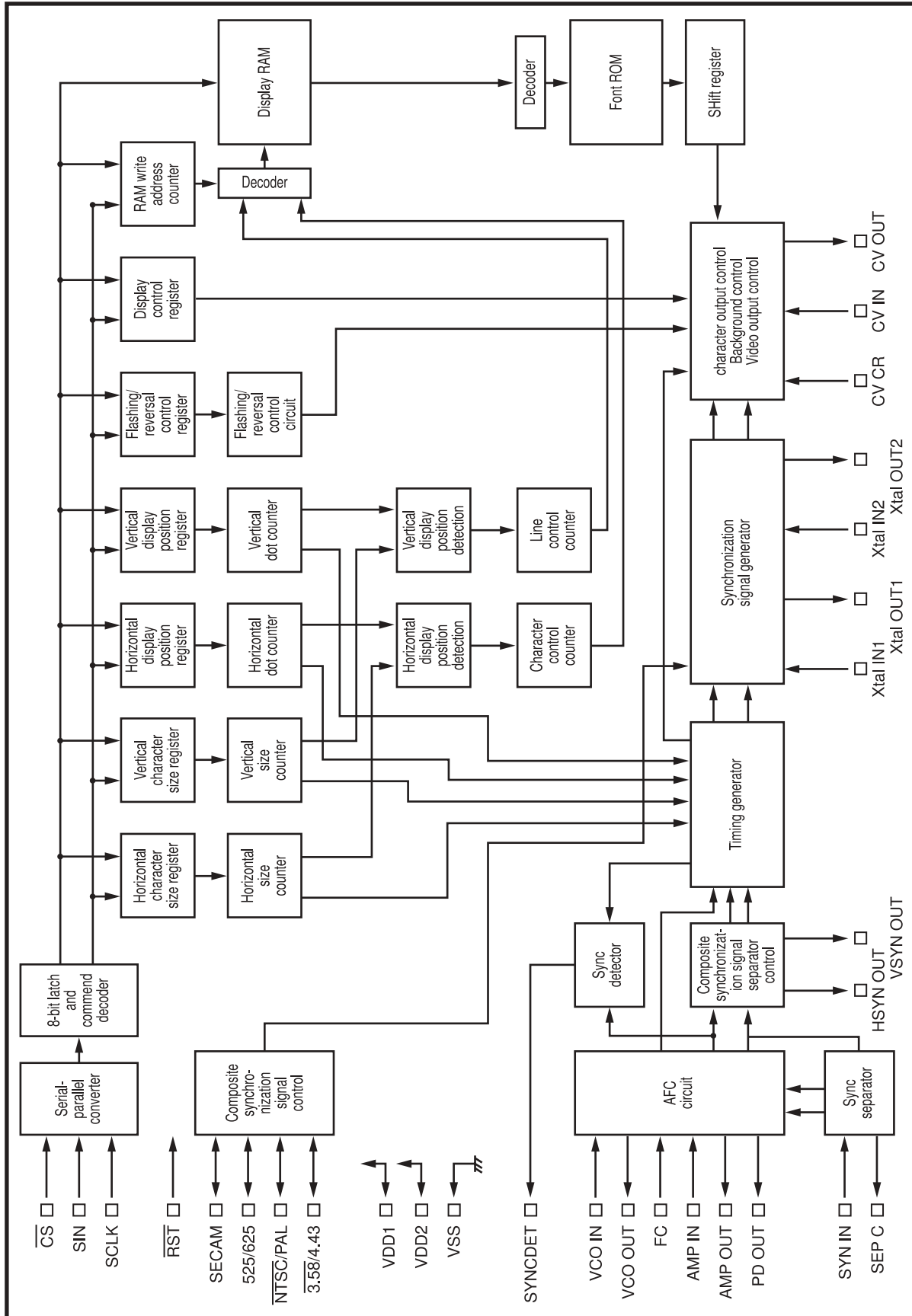
BA7660FS
COMPONENT VIDEO BOARD: U4301



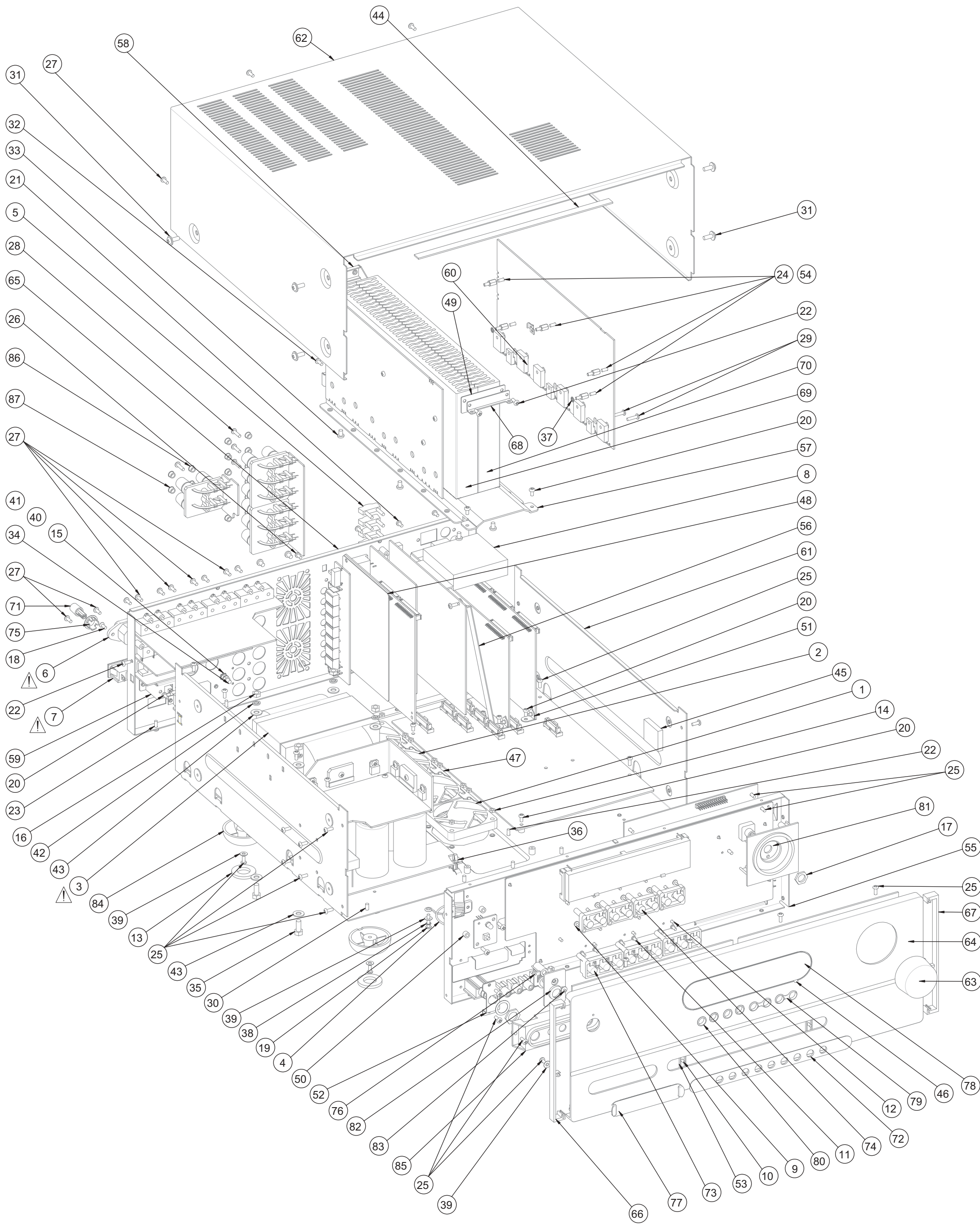
74HC4052
COMPONENT VIDEO BOARD: U4302 & U4303



LC74763
S-VIDEO BOARD:
U4101



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Item	Database Part No.	Description	Qty.
1	176-201123-04	FAN DC 60 X 60 X 10mm 12V 0.09A 3000RPM MGA6012LR-A10(L) W/450mm CONNECTOR (RoHS) R.1	2
2	176-201123-05	FAN DC 60 X 60 X 10mm 12V 0.09A 3000RPM MGA6012LR-A10(L) W/350mm CONNECTOR (RoHS) R.1	2
3	⚠ 177-022005-03	TRANSFORMER PW EI-114 115V/230V T753 T06675A (RoHS)	1
4	181-000000-09	FAN GUARD 60mm DFG-60	4
5	275-006103-00	JUMPER PLUG PITCH 14mm	6
6	⚠ 275-010100-00	AC SOCKET IEC 10A/250V	1
7	⚠ 275-010100-05	AC OUTLET 3 PINS US POLARIZED SS-6B-1-NY [FOR AH & AHT VER.]	1
	⚠ 275-010000-03	AC OUTLET EURO CEE 7 2.5A/250V A302D0060P [FOR C & CT VER.]	1
8	560-400000-02	AM/FM TUNER MODULE KST-MB114MA0-23 (ROHS)	1
	560-400000-00	AM/FM TUNER MODULE KST-MB114MA1-23 (ROHS) [FOR C & CT VER.]	1
9	601-020050-02	SELF TAPPING SCREW 2X5 WASHER HEAD TYPE [B] NI PLT (RoHS)	8
10	601-026050-00	SELF TAPPING SCREW DIA2.6 X 5 P/H TYPE [A] NI PLT (RoHS)	2
11	601-026060-00	SELF TAPPING SCREW DIA2.6 X 6 P/H TYPE [A] NI PLT (RoHS)	6
12	601-026080-01	SELF TAPPING SCREW DIA2.6 X 8 B/H TYPE [A] NI PLT (RoHS)	14
13	608-140260-01	RUBBER FOOT I/D14 X O/D26 X 3 PORON HH-48C	4
14	610-030024-00	NUT M3 X 2.4mm (RoHS)	16
15	610-040032-00	NUT M4 X 3.2mm 0.7p	2
16	610-050034-00	NUT M5X3.4 NI PLT	4
17	610-090022-00	NUT ZINC PLATED M9.0 X 2.2mm 11p	1
18	614-030008-01	TAPTITE SCREW 3 X 8 SMALL K/H TYPE [B] BLK PLT (RoHS)	2
19	614-030018-00	MACHINE SCREW M3 X 18 P/H NI PLT (RoHS)	16
20	614-030060-00	MACHINE SCREW M3 X 6 P/H NI PLT (RoHS)	17
21	614-030060-01	MACHINE SCREW M3 X 6 P/H BLK (RoHS)	2
22	614-030060-03	MACHINE SCREW M3.0 X 6.0 B/H TAP TYPE NICKEL PLT (RoHS)	20
23	614-030060-11	TAPTITE SCREW 3 X 6 B/H TYPE [B] BLK (RoHS)	4
24	614-030080-00	MACHINE SCREW M3 X 8 P/H NI PLT (RoHS)	5
25	614-030080-05	SELF TAPPING SCREW DIA3 X 8 B/B ZINC PLD TAPTITE-TYPE (RoHS)	32
26	614-030080-10	MACHINE SCREW M3 X 8 B/H BLACK (RoHS)	2
27	614-030080-13	TAPTITE SCREW DIA3 X 8 B/H TYPE [B] BLK PLT (RoHS)	54
28	614-030100-04	TAPTITE SCREW DIA3 X 10 P/H TYPE [B] BLK (RoHS)	7
29	614-030120-02	MACHINE SCREW M3 X 12 B/H NI-PLT (RoHS)	20
30	614-035080-04	TAPTITE SCREW 3.5 X 8.0 B/H TYPE [B] NI PLT (RoHS)	5
31	614-040080-03	MACHINE SCREW M4 X 8 WASHER HEAD BLK (RoHS) [FOR GREY VER.]	6
31	614-040080-02	MACHINE SCREW M4 X 8 WASHER HEAD NI PLT (RoHS) [FOR TITANIUM VER.]	6
32	614-040080-06	TAPTITE SCREW DIA4 X 8 B/H BLK TYPE-B (RoHS)	4

Item	Database Part No.	Description	Qty.
33	614-040080-08	TAPTITE SCREW 4 X 8 C/H TYPE -B BLK (RoHS)	6
34	614-040140-01	MACHINE SCREW M4 X 14 WAHER HEAD BLK	1
35	614-050120-00	HEX HEAD SCREW M5 X 12 NI PLT (RoHS)	4
36	616-050096-00	PCB SUPPORTER KSS (H=9.6mm PCB HOLE 4mm) CS-0610	3
37	617-030004-00	INTERNAL TOOTH WASHER M3 X 0.4mm	5
38	617-032056-00	WASHER SPRING I/D 3.2 X O/D 5.6 0.9mm THK	35
39	617-035008-01	WASHER STEEL I/D 3.5 X O/D 8.0 0.4mm THK. ZINC PLT.	22
40	617-040007-00	WASHER SPRING I/D 4 x 0/D 7 x 1 THK	2
41	617-042082-00	OUTER TOOTH WASHER ID 4.2 X OD 8.2 X 0.4 THK NICKEL PLT	1
42	617-052008-00	WASHER SPRING I/D 5.2 X O/D 8 X 1.2 THK ZINC PLT.	4
43	617-056120-00	WASHER STEEL I/D 5.6 X O/D 12 X 1 THK. NI PLT.	8
44	622-009240-00	FOAM 9 X 240 X 1.5mm BLACK (UL GRADE) W/NITTO 500	1
45	622-030025-00	FOAM 30x25x6mm	1
46	622-075300-01	STATIC COVER SHEET (PET)	1
47	622-076203-00	FAN WIRE FIBRE PAPER	4
48	622-076300-00	FIBER PAPER 133 X 150 X 0.8mm	1
49	622-076300-03	FIBRE PAPER 54x20x0.8mm	1
50	659-016305-00	METAL SPACER OD6 X ID3.2 X 4.8mm (RoHS)	2
51	659-057007-01	L BRACKET R.1	2
52	659-075206-00	PHONE BRACKET	1
53	659-075207-00	DUMMY BRACKET	2
54	659-076200-00	HEX SPACER AF5.5 H8+6 (RoHS)	10
55	659-076202-02	SUBFASCIA R.2	1
56	659-076207-00	S-VIDEO SUPPORT BRACKET	1
57	659-076208-01	LARGE FAN MOUNTING BRACKET R.1	1
58	659-076209-00	HTSK SUPPORT BRACKET (PAINTED BLACK)	2
59	659-077309-00	POWER BUTTON BRACKET H=24.8mm	1
60	659-210013-00	CLIP THERMAL SWITCH	1
61	660-075300-02	BOTTOM CHASSIS T753 R.7	1
62	661-075300-03	TOP COVER (AH) T753 (PAINTED GREY) R.7 [FOR AH VER.]	1
	661-075301-03	TOP COVER (C) T753 (PAINTED GREY) R.7 [FOR C VER.]	1
	661-075301-06	TOP COVER (C) T753 (PAINTED SILVER) R.7 [FOR CT VER.]	1
	661-075300-04	TOP COVER (AH) T753 (PAINTED SILVER) R.7 [FOR AHT VER.]	1
63	664-075200-00	VOLUME KNOB ASSY (D. GREY) [FOR GREY VER.]	1
	664-075200-01	VOLUME KNOB ASSY (TITANIUM) [FOR TITANIUM VER.]	1
64	665-075300-03	FASCIA T753 (D.GREY) R.3 [FOR GREY VER.]	1
	665-075300-01	FASCIA T753 (TITANIUM) R.3 [FOR TITANIUM VER.]	1
65	666-075300-03	REAR PANEL (AH) R.6 [FOR AH & AHT VER.]	1
	666-075301-01	REAR PANEL (C) R.1 [FOR C & CT VER.]	1
66	667-076202-01	SIDE CAP L [FOR GREY VER.]	1
	667-076202-00	SIDE CAP L (PAINTED TITANIUM) [FOR TITANIUM VER.]	1
67	667-076203-01	SIDE CAP R [FOR GREY VER.]	1

Item	Database Part No.	Description	Qty.
67	667-076203-00	SIDE CAP R (PAINTED TITANIUM) [FOR TITANIUM VER.]	1
68	672-075204-00	HEATSINK MOUNTING BRACKET	1
69	672-076209-02	NEW EXTRUDED HTSK LEFT R.3	1
70	672-076210-00	NEW EXTRUDED HTSK RIGHT R.1	1
71	684-075202-01	POWER BUTTON BLACK (RoHS)	1
72	684-075203-07	INPUT BUTTON LOZENGE (RoHS) [FOR GREY VER.]	1
	684-075203-08	INPUT BUTTON LOZENGE (PAINTED TITANIUM) (RoHS) [FOR TITANIUM VER.]	1
73	684-075203-11	INPUT BUTTON (PAINTED GREY) R.4 (RoHS) [FOR GREY VER.]	3
	684-075203-12	INPUT BUTTON (PAINTED TITANIUM) R.4 (RoHS) [FOR TITANIUM VER.]	3
74	684-075204-02	DUO BUTTON (PAINTED GREY) R.1 (RoHS) [FOR GREY VER.]	4
	684-075204-04	DUO BUTTON (PAINTED TITANIUM) R.1 (RoHS) [FOR TITANIUM VER.]	4
75	684-075204-05	POWER BUTTON BEZEL	1
76	684-077202-02	POWER BUTTON TACT ACTIVATE (PAINTED GREY) R.1 (RoHS) [FOR GREY VER.]	1
	684-077202-04	POWER BUTTON TACT ACTIVATE (PAINTED TITANIUM) R.1 (RoHS) [FOR TITANIUM VER.]	1
77	688-075200-01	VIDEO COVER (PAINTED GREY) [FOR GREY VER.]	1
	688-075200-02	VIDEO COVER (PAINTED TITANIUM) [FOR TITANIUM VER.]	1
78	691-075200-00	WINDOW LENS (RoHS)	1
79	694-016304-01	LINKED GOGGLE BEZEL (PAINTED GREY) (RoHS) [FOR GREY VER.]	2
	694-016304-02	LINKED GOGGLE BEZEL (PAINTED TITANIUM) (RoHS) [FOR TITANIUM VER.]	2
80	694-016305-02	DUO GOGGLE BEZEL (PAINTED GREY)R.1 (RoHS) [FOR GREY VER.]	2
	694-016305-04	DUO GOGGLE BEZEL (PAINTED TITANIUM) R.1 (RoHS)[FOR TITANIUM VER.]	2
81	694-075200-01	VOLUME BEZEL (PAINTED GREY) [FOR GREY VER.]	1
	694-075200-02	VOLUME BEZEL (PAINT TITANIUM) [FOR TITANIUM VER.]	1
82	694-077204-02	POWER BUTTON BEZEL (PAINTED GREY) R.1 (RoHS)[FOR GREY VER.]	1
	694-077204-04	POWER BUTTON BEZEL (PAINTED TITANIUM) R.1 (RoHS) [FOR TITANIUM VER.]	1
83	695-077201-00	LED LENS ROUND (RoHS)	1
84	698-016301-00	PLASTIC FOOT DOME SHAPE (RoHS)	4
85	698-075206-00	VIDEO HOUSING	1
86	698-150001-00	BANANA PLUG BLACK PT#10.B [FOR C & CT VER.]	8
87	698-150001-01	BANANA PLUG RED PT#10.R [FOR C & CT VER.]	8

NOTE:

THE COMPONENTS IDENTIFIED BY  MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.


<*AH > : USA, CANADIAN MODEL ONLY.

<*AHT > : USA, CANADIAN WITH TATANIUM COLOUR ONLY, ALL ELECTRICAL ARE SAME AS *AH VERSION.

<*C > : EUROPEAN MODEL ONLY.

<*CT > : EUROPEAN MODEL WITH TATANIUM COLOUR ONLY, ALL ELECTRICAL ARE SAME AS *C VERSION.

ELECTRICAL PARTS LIST

<u>Reference No.</u>	<u>Database Part No.</u>	<u>Description</u>
FRONT & CENTER AMP BOARD PCB ASSEMBLY	800-A1BD53-20	T753AH (US) Phase II Normal Front and Center Amp Boars Assembly
CAPACITORS		
C501,C513,C525	130-477052-04(8)/E	CAP ELEC SS 4.7uF 50V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C510,C511,C521,C522,C535,C534	130-102082-02(1)	CAP ELEC GR 100uF 100V 20% RAD EGRR-107M2A01
C527,C515,C503	110-102677-00(3)/E	CAP MYLAR 1000P 100V 10% ST4.0 (RoHS)
C529,C517,C505	130-472022-01(4)/E	CAP ELEC GR 470uF 16V 20% 85C RAD ST5 EGR-R-477M1C-01 (RoHS)
C531,C519,C508	110-154677-00(6)/E	CAP MYLAR 150nF 100V 10% ST7.5 (RoHS)
C537-C539	106-104076-01(8)/E	CAP MPF 0.1uF 63V +/-5% MEM TYPE (RoHS)
C566,C565	130-471022-03(1)/E	CAP ELEC SS 47uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
DIODES		
D501-D503,D505-D507,D509-D514, D522-D528,D531-D536	300-000000-08(2)/E	DIODE SW 4NS DO35 1N4148 (RoHS)
D529,D530	303-322200-01(4)	DIODE ZENER BZX55 22V 1/2W 5% DO-35 BZX-C22
COILS		
L501-L503	153-100000-01(7)/E	AIR COIL 0.2uH +/-10% 1 X 9 X 13.5 TURNS (RoHS)
RELAYS		
M501,M502,M505	182-312405-01(2)	RELAY POWER DC24V 5A/250V 2P1T PCB ME-7C024-2HS
THERMISTOR		
M504,M507,	384-100057-00(5)	THERMISTOR PTC 100 OHM PTH9MO4BH471TS2F333
THERMAL PROTECTOR		
M506 	181-000000-07(9)	THERMAL CUT OFF SWITCH 90C UP72
TRANSISOTRS		
Q507,Q519,Q531	330-101161-00(7)	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q510,Q522,Q533	330-115231-00(7)	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q501-Q503,Q511,Q513-Q515,Q523, Q525-Q527,Q5352S	339-000041-00(6)	XTR SS NPN HFE160-320 130MHZ C2362KF
Q504,Q506,Q516,Q518,Q529,Q530, Q562,Q565,Q568	330-101121-00(6)	XTR PW NPN 1A/100V TO-126 2SD600KE
Q505,Q508,Q517,Q520,Q528,Q532	330-101161-02(9)	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q509,Q521,Q534	330-115231-01(8)	XTR PW PNP 15A/230V TO-3PB 2SA2031

<u>Reference No.</u>	<u>Database Part No.</u>	<u>Description</u>
Q543-Q545	339-000038-00(1)	XTR SS NPN HFE20 250MHz DTC123ESATP
Q550,Q551,Q553,Q554,Q556,Q557, Q561,Q564,Q567	339-010041-00(1)	XTR SS PNP HFE 280-560 110MHZ 2SA1016KG-AA
Q563,Q566,Q569	330-101121-01(7)	XTR PW PNP 1A/100V TO-126 2SB631KE
RESISTORS		
R523,R547,R574	386-022853-01(5)	RES RN 0.22 OHM 5% 5W SIL 3 PIN COMMAND PIN2 WW
R527,R528,R548,R556,R575,R576	383-010033-60(3)	RES MO 10 OHM 5% 1/2W AXIAL
R589-R591	383-010033-80(3)	RES MO 10 OHM 5% 2W AXIAL
VRS		
R522,R545,R571	253-010210-00(9)	VR SEMI-FIX RES CF 1K OHM B 30% 6mm VER RM-063-1K
JUMPER BARS		
J1-J18	670-075200-01(7)	JUMPER BAR DIA1.5 X 25 R.1
<u>SURROUND AMP BOARD</u>		
PCB ASSEMBLY Board Assembly	800-A2BD53-20	T753AH (US) Phase II Surround Amp
CAPACITORS		
C554	130-221022-03(2)/E	CAP ELEC GS 22uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C801,C802,C835	130-477052-04(8)/E	CAP ELEC SS 4.7uF 50V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C805,C806,C836	110-102677-00(3)/E	CAP MYLAR 1000P 100V 10% ST4.0 (RoHS)
C809,C810,C837,C874,C875	130-472022-01(4)/E	CAP ELEC GR 470uF 16V 20% 85C RAD ST5 EGR-R-477M1C-01 (RoHS)
C819-C822,C843,C842	130-102082-02(1)	CAP ELEC GR 100uF 100V 20% RAD EGRR-107M2A01
C823,C824,C844	106-104076-01(8)/E	CAP MPF 0.1uF 63V +/-5% MEM TYPE (RoHS)
C840,C816,C815	110-154677-00(6)/E	CAP MYLAR 150nF 100V 10% ST7.5 (RoHS)
C871,C873	130-471052-70(1)/E	CAP ELEC SS 47uF 50V 20% 85C RAD ESS-R-476M1H-01 HEIGHT = 8X9mm (RoHS)
C872	130-101052-04(4)	CAP ELEC SS 10uF 50V 20% 85C RAD HEIGHT= 7mm MAX
C876	130-223042-04(9)/E	CAP ELEC KM 2200uF 35V 20% 105C VER (RoHS)
DIODES		
D801-D809,D814-D818,D820-D825, D871-D874,D880-D883	300-000000-08(2)/E	DIODE SW 4NS DO35 1N4148 (RoHS)
D879,D878	303-313391-00(9)	DIODE ZENER BZX85 3.3V 1W 5% DO41 BZX85C3V3
COILS		
L801-L803	153-100000-01(7)/E	AIR COIL 0.2uH +/-10% 1 X 9 X 13.5 TURNS (RoHS)

Reference No.	Database Part No.	Description
RELAYS M801,M802	182-312408-00(7)	RELAY POWER DC24V 8A/250V 2P1T PCB MOUNT ME-11-024-2H4
TRANSISTORS Q512,Q807,Q808,Q823,Q824,Q826, Q827,Q834,Q835,Q837	339-010041-00(1)	XTR SS PNP HFE 280-560 110MHz 2SA1016KG-AA
Q545,Q546,Q801-Q806,Q821,Q822, Q838-Q840,Q847	339-000041-00(6)	XTR SS NPN HFE160-320 130MHz 2SC2362KF
Q809-Q812,Q841,Q842,Q854,Q856, Q858	330-101121-00(6)	XTR PW NPN 1A/100V TO-126 2SD600KE
Q813,Q814,Q843	330-101161-00(7)	XTR PW NPN 1.5A/160V TO-220ML 2SC4159E
Q815,Q816,Q844,Q850-Q852	330-101161-02(9)	XTR PW PNP 1.5A/160V TO-220ML 2SA1606E
Q818,Q817,Q845	330-115231-00(7)	XTR PW NPN 15A/230V TO-3PB 2SC5669
Q819,Q820,Q846	330-115231-01(8)	XTR PW PNP 15A/230V TO-3PB 2SA2031
Q829,Q848	339-000038-00(1)	XTR SS NPN HFE20 250MHz DTC123ESATP
Q855,Q857,Q859	330-101121-01(7)	XTR PW PNP 1A/100V TO-126 2SB631KE
Q871	330-103600-04(1)	XTR PW 3A/60V TO-126 2SB772Q
Q872	339-000039-00(9)	XTR SS NPN HFE270-560 180MHz 2SC1740STPS
RESISTORS R844,R843,R8103	386-022853-01(5)	RES RN 0.22 OHM 5% 5W SIL 3 PIN COMMAND PIN2 WW
R858,R857,R8110	383-010033-80(3)	RES MO 10 OHM 5% 2W AXIAL
R829,R830,R837,R838,R894,R898	383-010033-60(3)	RES MO 10 OHM 5% 1/2W AXIAL
VRS R897,R836,R835	253-010210-00(9)	VR SEMI-FIX RES CF 1K OHM B 30% 6mm VER RM-063-1K
REGULATORS U871	503-300120-07(2)/E	IC VOLT REG 12V 1A TO-220 NJM7812 ISOWATT (RoHS)
U872	503-300050-14(5)/E	IC VOLT REG 5V 1A TO-220 NJM7805FA ISOWATT (RoHS)
JUMPER BARS J19-J36	670-075200-01(7)	JUMPER BAR DIA1.5 X 25 R.1
DSP BOARD PCB ASSEMBLY	800-ACBD53-20	T753AH (US) Phase II DSP Board Assembly
CAPACITORS C1005	130-227052-04(9)/E	CAP ELEC SS 2.2uF 50V 20% 85C RAD ESS-R-225M1H-01 (RoHS)

Reference No.	Database Part No.	Description
C1011	130-108052-01(9)/E	CAP ELEC. SS 0.1uF 50V 20% 85C RAD HEIGHT=7mm (RoHS)
C1012,C1072,C1092,C1137-C1140, C1080,C1079	130-101022-02(8)/E	CAP ELEC SS 10uF 16V 20% 85C RAD HEIGHT =7mm MAX (RoHS)
C1050,C1051,C1041,C1040,C1030, C1031,C1021,C1020	130-337052-01(4)/E	CAP ELEC SS 3.3uF 50V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C1060,C1073	130-472022-01(4)/E	CAP ELEC GR 470uF 16V 20% 85C RAD ST5 EGR-R-477M1C-01 (RoHS)
C1096,C1098,C1100,C1004,C1083, C1002	130-107052-03(6)/E	CAP ELEC SS 1uF 50V 20% 85C RAD HEIGHT= 7mm MAX (RoHS)
C1109-C1113,C1209,C1210	130-471022-03(1)/E	CAP ELEC SS 47uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C1117	130-102022-06(8)	CAP ELEC SS 100uF 16V 20% 85C RAD HEIGHT = 7mm MAX
C1145-C1148	130-221022-03(2)/E	CAP ELEC GS 22uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
INDUCTORS		
L1001-L1007,L1010,L1012	152-010012-02(3)/E	IND CHOKE 10uH 10% EC36 AXIAL EC36-100K (RoHS)
TRANSISTORS		
Q1003,Q1002,Q1001	339-000001-01(6)/E	XTR SS NPN HEF 100 200MHz TO-92 C1815Y (RoHS)
IC & REGULATORS		
U1007	502-027020-00(3)	I.C.EEPROM 256X8 BYTE 70ns PDIL SST27SF020
U1020,U1015	503-303171-00(8)	IC REG 1A TO-220(T) LM317T
CRYSTAL		
X1001	290-512220-01(4)/E	CRYSTAL CLOCK OSCILLATOR 12.288MHz 50ppm 4PIN HALF-SIZE (RoHS)
CAPACITORS SMD		
C1001,C1003,C1017-C1019,C1074- C1076,C1078,C1081,C1082,C1095, C1097,C1099,C1123-C1128,CC1141, C1142	120-104528-71(9)	CAP CER SMD 0.1uF 50V 20% Y5V 0603 TAPE
C1006,C1121	120-221527-50(5)	CAP CER SMD 220pF 50V 10% X7R 0603 TAPE
C1010,C1007,C1160	120-103527-52(6)	CAP CER SMD 10nF 50V 10% X7R 0603 TAPE
C1022,C1026,C1032,C1036,C1042, C1046,C1052,C1056	120-332527-50(8)	CAP CER SMD 3.3nF 50V 10% X7R 0603 TAPE
C1024,C1028,C1034,C1038,C1044, C1048,C1054,C1058,C1132	120-102527-51(9)	CAP CER SMD 1nF 50V 10% X7R 0603 TAPE
C1025,C1029,C1035,C1039,C1045, C1049,C1055,C1059	139-152527-50(2)/E	CAP CER. SMD 1.5 nF 50V +/-10 % X7R 0603 TYPE (GP)
C1101-C1108	120-101527-51(4)	CAP CER SMD 100pF 50V 10% X7R 0603 TAPE
C1114	120-472527-51(1)	CAP CER SMD 4.7nF 50V 10% X7R 0603 TAPE
C1130-C1131,C1134-C1136,C1143- C1144	120-222527-51(2)	CAP CER SMD 2.2nF 50V 10% X7R 0603 TAPE

<u>Reference No.</u>	<u>Database Part No.</u>	<u>Description</u>
C1161	120-680527-50(9)	CAP CER SMD 68pF 50V 10% X7R 0603 TAPE
C1201-C1208	120-331527-50(3)	CAP CER SMD 330pF 50V 10% X7R 0603 TAPE
INDUCTORS SMD		
L1011,L1013	166-027901-04(2)	IND 2.7uH SMD 10% 0805 CI201209- 2R7KG
RESISTORS SMD		
R1001-R1002,R1079,R1083,R1097- R1098,R1101-R1102,R1231-R1246	390-470124-10(5)/E	RES SMD 4.7K OHM +/-1% 1/16W 0603 TAPE (RoHS)
R1003-R1006,R1081	390-330126-11(3)	RES SMD 3.3K OHM 5% 1/16W 0603 TAPE
R1007	390-330926-11(6)	RES SMD 33 OHM 5% 1/16W 0603 TAPE
R1008,R1020-R1021,R1114,R1131- R1138,R1230	390-100226-11(9)	RES SMD 10K OHM 5% 1/16W 0603 TAPE
R1009	398-200326-10(6)/E	RES. SMD 200K OHM +/-5% 1/16W 0603 TYPE (GP)
R1010,J1001	390-000026-11(3)	RES SMD 0 OHM 5% 1/16W 0603 TAPE
R1013	390-120126-12(3)	RES SMD 1.2K OHM 5% 1/16W 0603 TAPE
R1023,R1027,R1028,R1030,R1033, R1035,R1037,R1041,R1042,R1044, R1047,R1049,R1051,R1055,R1056, R1058,R1061,R1063,R1065,R1069, R1070,R1072,R1075,R1077,R1078, R1080,R1084	390-220124-10(6)	RES SMD 2.2K OHM 1% 1/16W 0603 TAPE
R1082	390-180126-11(8)	RES SMD 1.8K OHM 5% 1/16W 0603 TAPE
R1090,R1091	390-270126-12(8)	RES SMD 2.7K OHM 5% 1/16W 0603 TAPE
R1092,R1093	390-100026-11(6)	RES SMD 100 OHM 5% 1/16W 0603 TAPE
R1095,R1096,R1117-R1120,R1050, R1054,R1064,R1068,R1022,R1026, R1036,R1040	390-100224-11(2)	RES SMD 10K OHM 1% 1/16W 0603 TAPE
R1099,R1100	390-499124-10(4)/E	RES SMD 4.99K OHM +/-1% 1/16W 0603 TAPE (RoHS)
R1121-R1124	390-150026-11(8)	RES SMD 150 OHM 5% 1/16W 0603 TAPE
R1141-R1148	398-620026-10(8)/E	RES. SMD 620 OHM +/-5% 1/16W 0603 TYPE (GP)
R1151	390-100126-11(3)	RES SMD 1K OHM 5% 1/16W 0603 TAPE
ICS SMD		
U1001	509-949326-00(2)	IC DD DTS & MPEG DECODER PLCC CS49326
U1002,U1003,U1014	500-032459-00(5)	IC LOGIC OCTAL BIDIRECTIONAL TRANSCEIVER SMD 74LVC245ATTR
U1004	500-011579-01(4)	IC LOGIC QUAD 2-INPUT SELECTOR SOIC 74HC157MIR
U1005	509-984150-00(8)	IC 96KHz DIGITAL AUDIO INTERFACE RECEIVER SMD CS8415A-CS

<u>Reference No.</u>	<u>Database Part No.</u>	<u>Description</u>
U1008,U1009	500-065749-00(7)	IC LOGIC OCTAL D-FLIP FLOPS WITH 3-STAGE OUTPUT SMD 74LVQ574 M
U1010-U1013,U1023,U1025	507-705532-01(7)/E	IC AUDIO LOW NOISE OP-AMP SMD NJM5532M (RoHS)
U1021	509-942280-00(9)	IC 24BIT 96KHz SURROUND SOUND CODE SSOP CS4228AKS
U1022	509-943400-01(7)	IC 24BIT 96KHz STEREO DAC FOR AUDIO SOIC CS4340
<u>AUDIO BOARD</u> <u>PCB ASSEMBLY</u>	800-AUBD53-20	T753AH (US) Phase II Audio Board Assembly
<u>CAPACITORS</u>		
C301-C316	100-101577-09(9)	CAP CER TC 100pF 50V 10% SL RAD ST5 TCSL101K502
C3101-C3113,C3115	130-221022-03(2)/E	CAP ELEC GS 22uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
<u>RCA JACKS</u>		
M303	265-404042-00(4)	RCA JACK 4 R-R/W-W PCB MOUNT GOLD (W/SHIELD)
M301,M302	265-406042-00(5)	RCA JACK 6 R-R-R/W-W PCB MOUNT GOLD RCA-653D-04 (W/COVER)
<u>COMPONENT VIDEO BOARD</u> <u>PCB ASSEMBLY</u>	800-CVBD53-20	T753AH (US) Phase II Component Video Board Assembly
<u>CAPACITORS</u>		
C4310-C4312,C4325,C4327,C4328	130-101022-02(8)/E	CAP ELEC SS 10uF 16V 20% 85C RAD HEIGHT =7mm MAX (RoHS)
C4316,C4318,C4320	130-103012-03(3)	CAP ELEC GS 1000uF 10V 20% 85C RAD ST5 GS102M010G130CXC
C4313-C4315	130-107052-03(6)/E	CAP ELEC SS 1uF 50V 20% 85C RAD HEIGHT= 7mm MAX (RoHS)
C4301-C4306	130-227052-04(9)/E	CAP ELEC SS 2.2uF 50V 20% 85C RAD ESS-R-225M1H-01 (RoHS)
<u>RCA JACKS</u>		
M431,M432,M434	265-403202-00(1)	RCA 3 G-BL-R PCB MOUNT GOLD (W/COVER)
<u>DIODES</u>		
D4301,D4302	300-000000-08(2)/E	DIODE SW 4NS DO35 1N4148 (RoHS)
<u>RESISTORS SMD</u>		
J4301-J4303	398-000036-20(7)/E	RES. SMD 0 OHM +/-5% 1/10W 0805 TYPE (GP)
<u>ICS SMD</u>		
U4304	500-010099-02(2)	IC QUAD 2-INPUT NAND GATE SOP M74HC00RM13TR

<u>Reference No.</u>	<u>Database Part No.</u>	<u>Description</u>
U4305	500-080499-00(7)	IC LOGIC HEX INVERTER SMD SOP M74HCU04MIR
U4302,U4303	500-744052-00(5)	IC LOGIC ANALOG MULTIPLEXER/ DEMULTIPLEXER SMD SOIC-16 74HC4052D PHILIPS
U4301	505-517660-00(3)	IC VIDEO 3-CHANNEL 75 OHM DRIVER SSOP BA7660FS
<u>DIGITAL INPUT BOARD</u> <u>PCB ASSEMBLY</u>	800-DGBD53-20	T753AH (US) Phase II Digital Input Board Assembly
<u>CAPACITORS</u> C1221,C1214,C1213	130-227052-04(9)/E	CAP ELEC SS 2.2uF 50V 20% 85C RAD ESS-R-225M1H-01 (RoHS)
C1222,C1223	130-102022-06(8)	CAP ELEC SS 100uF 16V 20% 85C RAD HEIGHT = 7mm MAX
<u>OPTICAL FIBRE</u> J1006,J1005	320-670138-00(7)	FIBRE OPTIC RECEIVING UNIT GP1FA550RZ
J1008	320-669138-01(4)	FIBRE OPTIC TRANSMITTER GP1FA550TZ
<u>RCA JACKS</u> J1001-J1004,J1007	265-401032-00(9)	RCA JACK 1 BLACK PCB MOUNT GOLD (W/SHIELD)
<u>CAPACITORS SMD</u> C1232-C1235	120-221527-50(5)	CAP CER SMD 220pF 50V 10% X7R 0603 TAPE
<u>ICS SMD</u> U1203	500-012519-00(2)	IC LOGIC 8-CHANNEL MULTIPLEXER-SSOP 74HC251M1R
U1201,U1202	500-080499-00(7)	IC LOGIC HEX INVERTER SMD SOP M74HCU04MIR
<u>ISC BOARD</u> <u>PCB ASSEMBLY</u>	800-ISBD53-20	T753AH (US) Phase II ISC Board Assembly
<u>CAPACITORS</u> C786-C789,C816-C820	106-104076-01(8)/E	CAP MPF 0.1uF 63V +/-5% MEM TYPE (RoHS)
C811,C829,C830,C832,C833	130-101022-02(8)/E	CAP ELEC SS 10uF 16V 20% 85C RAD HEIGHT =7mm MAX (RoHS)
<u>DIODES</u> D810	305-501040-00(7)	DIODE BRI 10A/400V KBK10G
D811,D812	301-191260-00(4)	DIODE RECT 12A/600V TO-220 TYN612

Reference No.	Database Part No.	Description
D813,D823	300-000000-08(2)/E	DIODE SW 4NS DO35 1N4148 (RoHS)
D821,D822	303-321200-04(2)	DIODE ZENER BZX55 12V 1/2W 5% DO35 BZX55-C12V
JUMPER BARS		
J1,J2,J3,J4,J5	670-075201-01(6)	JUMPER BAR DIA1.5 X 30 R.1
JMP9301,JMP9302,JMP9303, JMP9304,JMP9305	670-075200-01(7)	JUMPER BAR DIA1.5 X 25 R.1
TRANSISTORS		
Q782,Q781	339-010041-00(1)	XTR SS PNP HFE 280-560 110MHZ 2SA1016KG-AA
Q812,831,Q833	339-000001-01(6)/E	XTR SS NPN HEF 100 200MHz TO-92 C1815Y (RoHS)
Q830,Q832	339-010010-01(9)/E	XTR SS PNP HFE 100 200MHz TO-92 A1015Y (RoHS)
RESISTORS		
R793,R790,	386-022853-01(5)	RES RN 0.22 OHM 5% 5W SIL 3 PIN COMMAND PIN2 WW
R837-R841	383-022823-60(4)	RES MO 0.22 OHM 5% 1/2W AXIAL TAPE & REEL
VRS		
R881	253-050310-02(6)	VR SEMI-FIXED RESISTOR CF 50K OHM 30% B 6mm HOR
IC SMD		
U801	507-705532-01(7)/E	IC AUDIO LOW NOISE OP-AMP SMD NJM5532M (RoHS)
KEY BOARD PCB ASSEMBLY	800-KEBD53-20	PCB Assy T753AH (US) Phase II Keyboard Board Assembly
CAPACITORS		
C208,C209,C210,C211,C259	130-471022-03(1)/E	CAP ELEC SS 47uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C212	130-103012-04(4)/E	CAP ELEC GR 1000uF 10V 20% 85C RAD EGR-R-108M1A-01 (RoHS)
C214	130-108052-01(9)/E	CAP ELEC. SS 0.1uF 50V 20% 85C RAD HEIGHT=7mm (RoHS)
C224	130-473032-02(8)/E	CAP ELEC GR 4700uF 25V 20% 85C RAD EGR478M1EK30RR (RoHS)
C255,C258	130-107052-03(6)/E	CAP ELEC SS 1uF 50V 20% 85C RAD HEIGHT= 7mm MAX (RoHS)
IR		
D201	320-094138-00(8)	IR RX 940nm 37.9KHz SHIELD ST FM-7138TE5
DIODES		
D212,D214-D218	300-000000-08(2)/E	DIODE SW 4NS DO35 1N4148 (RoHS)

Reference No.	Database Part No.	Description
D220	303-385190-00(9)/E	DIODE ZENER BZX79 5.1V 1/2W 5% DO35 BZX79-C 5.1V (RoHS)
ENCODER		
M201	254-600121-01(8)	ENCODER ROTATRY STD L=20MM VERT ,W/O CLICK EC16B243040F
TRANSISOTRS		
Q201	339-010010-01(9)/E	XTR SS PNP HFE 100 200MHz TO-92 A1015Y (RoHS)
Q204,Q203	339-000001-01(6)/E	XTR SS NPN HEF 100 200MHz TO-92 C1815Y (RoHS)
TACT SWITCHES		
S201-S219	182-100111-08(9)	SW TACT NO 1P1T 50mA/12V VER H=7mm TM114BFJ
IC		
U210	502-230022-08(2)/E	IC EEPROM 2K BYTE 250ns PDIL ENDURANCE : 1 MILLION CYCLES AT 24C16 (RoHS)
VFD		
VD201	354-434010-00(4)/E	VFD 16-BT-132-GNK 16 GRIDX36 ANODE 2 COLORS (GP)
CRYSTALS		
X201,X202	290-520020-02(5)/E	CRYSTAL 20.000MHz 30ppm HC-49S (RoHS)
CAPACITORS SMD		
C201-C202,C213,C215-C222,C229,C256,C257	120-104528-71(9)	CAP CER SMD 0.1uF 50V 20% Y5V 0603 TAPE
C223	120-103527-52(6)	CAP CER SMD 10nF 50V 10% X7R 0603 TAPE
C241,C242	120-102527-51(9)	CAP CER SMD 1nF 50V 10% X7R 0603 TAPE
C251-C254	120-330527-50(7)	CAP CER SMD 33pF 50V 10% X7R 0603
TRANSISTORS SMD		
Q205,Q206	339-000043-00(4)/E	XTR SS NPN HFE100-300 250MHz SOT-23 SMD T3904 TAPE (RoHS)
RESISTORS SMD		
R201-R207,R213,R219,R223,R224,R226,R227,R229,R231,R232,R254	390-100226-11(9)	RES SMD 10K OHM 5% 1/16W 0603 TAPE
R216	390-100144-50(9)/E	RES SMD 1K OHM 1% 1/4W 1206 TAPE (RoHS)
R217,R218	390-470026-11(7)	RES SMD 470 OHM 5% 1/16W 0603 TAPE
R220,R261-R264,R266,R268-R276,R280	390-470126-11(4)	RES SMD 4.7K OHM 5% 1/16W 0603 TAPE
R221,R230	390-220126-11(5)	RES SMD 2.2K OHM 5% 1/16W 0603 TAPE










Reference No.	Database Part No.	Description
R222	390-068024-70(5)/E	RES SMD 68 OHM +/-1% 1/16W 0603 TAPE (RoHS)
R225	390-560024-11(8)/E	RES SMD 560 OHM +/-1% 1/16W 0603 TAPE (RoHS)
R233	390-470226-11(1)	RES SMD 47K OHM 5% 1/16W 0603 TAPE
R234	390-100126-11(3)	RES SMD 1K OHM 5% 1/16W 0603 TAPE
R238	390-120226-11(8)	RES SMD 12K OHM 5% 1/16W 0603 TAPE 029634532B
R241,R242	390-100026-11(6)	RES SMD 100 OHM 5% 1/16W 0603 TAPE
R252,R251	398-100526-10(6)/E	RES. SMD 10M OHM +/-5% 1/16W 0603 TYPE (GP)
R253,R277,R278	390-000026-11(3)	RES SMD 0 OHM 5% 1/16W 0603 TAPE
R255	390-560226-11(9)	RES SMD 56K OHM 5% 1/16W 0603 TAPE
R265,R267	390-680026-11(8)	RES SMD 680 OHM 5% 1/16W 0603 TAPE
ICS SMD		
U201	501-108640-01(7)	IC MCU 8 BIT 64KROM 1024 BYTE SCRAM PLCC T89C51RD2-SL
U202	501-008951-00(9)/E	IC MCU 8 BIT 16KROM 1024 BYTE XRAM PLCC AT89C51RB2-SL (RoHS)
U203	509-963060-00(5)	IC VFD DRIVER SMD QFP PT6306
U204-U207,U211	500-054094-01(6)	IC LOGIC 8-STAGE SHIFT-AND-STORE BUS REGISTER SMD SO16 HEF4094BT
U208	500-014051-00(9)	IC LOGIC SINGLE 8 CH ANALOG MUX/ DEMUX SMD M74HC4051MIR
U209	500-032459-03(8)	IC LOGIC OCTAL BUS TRANSCEIVER (3-STATE) 74VHC245M
U214	509-981000-00(6)	IC MICROCONTROLLER RESET MONITORS TCM810LENB713
LED BOARD PCB ASSEMBLY		
	800-LEBD53-20	T753AH (US) Phase II LED Board Assembly
LED		
D211	314-001258-05(7)	LED RED-GRN CIRCULAR 5X8.7MM 5RG9SW-2-A COMMON ANODE
TACT SWITCH		
S220	182-100111-08(9)	SW TACT NO 1P1T 50mA/12V VER H=7mm TM114BFJ
MAIN BOARD PCB ASSEMBLY		
	800-MABD53-20	T753AH (US) Phase II Main Board Assembly
CAPACITORS		
C701,C724	130-473032-06(3)	CAP ELEC EGH 4700uF 25V 20% 105C RAD ST7.5 EGH1E478MRR

Reference No.	Database Part No.	Description
C702,C705,C706,C716,C725	130-103032-80(5)/E	CAP ELEC KM 1000uF 25V 20% 105C 10X20 EKM-R-108M1E-01 (RoHS)
C704	130-473047-00(8)/E	CAP ELEC 4700uF 35V 105C RAD EKM478M1VL35RR (RoHS)
C707	130-223042-04(9)/E	CAP ELEC KM 2200uF 35V 20% 105C VER (RoHS)
C710	130-471052-70(1)/E	CAP ELEC SS 47uF 50V 20% 85C RAD ESS-R-476M1H-01 HEIGHT = 8 X 9mm (RoHS)
C711-C713,C741	130-103052-03(4)/E	CAP ELEC KM 1000uF 50V 20% 105C RAD 13X25mm EKM-R-108M1H-01 (RoHS)
C715	106-105076-01(4)/E	CAP MPF 1uF 63V +/-5% MEM TYPE (RoHS)
C719	130-101022-10(6)/E	CAP ELEC KM 100uF 16V 20% 105C RAD ST5 KM101M100E110CXC (RoHS)
<i>DIDOES</i>		
D701-D710	301-010071-00(3)/E	DIODE RECT 1A/1000V DO41 WIN4007 REEL TYPE (RoHS)
D711	303-320310-02(8)	DIODE ZENER BZX55 30V 1/2W 5% DO35 BZX55-C30V
D715	305-500470-00(2)	DIODE BRI 4A/70V RS402L
<i>JUMPER BARS</i>		
JP1,JP2	670-075200-01(7)	JUMPER BAR DIA1.5 X 25 R.1
<i>TRANSISTORS</i>		
Q701	330-101121-00(6)	XTR PW NPN 1A/100V TO-126 2SD600KE
<i>REGULATORS</i>		
U702,U707	503-300120-07(2)/E	IC VOLT REG 12V 1A TO-220 NJM7812 ISOWATT (RoHS)
U703	503-310120-01(9)/E	IC VOLT REG TO-220F NJM7912 (RoHS)
U701,U704,U705	503-300050-14(5)/E	IC VOLT REG 5V 1A TO-220 NJM7805FA ISOWATT (RoHS)
<i>MULTI CHANNEL BOARD PCB ASSEMBLY</i>		
	800-MUBD53-20	T753AH (US) Phase II Multi-Channel Board Assembly
<i>CAPACITORS</i>		
C607,C6201-C6216	130-221022-03(2)/E	CAP ELEC GS 22uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C627,C628,C633,C634	130-102022-06(8)	CAP ELEC SS 100uF 16V 20% 85C RAD HEIGHT = 7mm MAX
C677,C678,C689,C690	130-471022-03(1)/E	CAP ELEC SS 47uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C755,C756,C775,C776	130-227052-09(5)	CAP ELEC 2.2uF 50V 20% NON-POLAR 99NPO2020
C757,C758	106-282076-00(5)	CAP MpF 0.082uF 63V 5% DMF 5 SERIES

Reference No.	Database Part No.	Description
C759-C762,C769,C770,C773,C774	106-104076-01(8)/E	CAP MPF 0.1uF 63V +/-5% MEM TYPE (RoHS)
C763,C764,C765,C766	106-247076-01(6)	CAP MpF 0.047uF 63V 5% DMF 5 SERIES
C767,C768,C771,C772	106-233076-00(8)	CAP MpF 0.0033uF 63V 5% DMF 5 SERIES
DIODES		
D602,D604	303-327590-00(1)	DIODE ZENER BZX55 7.5V 1/2W 5% DO35 BZX55-C7.5V
JUMPER BARS		
JP6101-JP6106	670-075200-01(7)	JUMPER BAR DIA1.5 X 25 R.1
INDUCTORS		
L6101,L6102	152-010110-03(3)/E	IND CHOKE 100uH +/-10% AXIAL EC24-101K (RoHS)
RCA JACKS		
M6101,M6103	265-406042-00(5)	RCA JACK 6 R-R-R/W-W-W PCB MOUNT GOLD RCA-653D-04 (W/COVER)
M6102	265-402032-00(5)	RCA JACK 2 B/B PCB MOUNT GOLD (W/SHIELD)
TRANSISTORS		
Q6101	339-000014-00(9)/E	XTR SS NPN HFE 120-200 190MHz TO-92 8050C (RoHS)
Q6102	339-010022-00(4)/E	XTR SS PNP HFE 120-200 200MHz TO-92 8550C (RoHS)
RESISTORS		
R609,R610,R615	381-330221-00(5)/E	RES MF 33K OHM 1% 1/6W AXIAL TAPE & REEL (GP)
R611,R612,R616	381-200221-00(8)/E	RES MF 20K OHM 1% 1/6W AXIAL TAPE & REEL (GP)
R613,R614	381-750221-00(7)/E	RES MF 75K OHM 1% 1/6W AXIAL TAPE & REEL (GP)
CAPACITORS SMD		
C6301-C6304	120-104528-71(9)	CAP CER SMD 0.1uF 50V 20% Y5V 0603 TAPE
ICS SMD		
U6101,U6102	507-766151-00(8)	IC SOUND PROCESSOR 7.1CH VOL+TONE SMD QFP M61516FP
U6104,U6105	507-705532-01(7)/E	IC AUDIO LOW NOISE OP-AMP SMD NJM5532M (RoHS)
SPEAKER A BOARD PCB ASSEMBLY		
	800-PABD53-20	T753AH (US) Phase II Speaker A Board Assembly

Reference No.	Database Part No.	Description
SPEAKER TERMINAL M5101,M8101	262-300002-02(3)	SPEAKER TERMINAL 6P BINDING R/B W/O PLUG KF-J5000-06
SPEAKER B BOARD PCB ASSEMBLY	800-PBBD53-20	T753AH (US) Phase II Normal Speaker B Board Assembly
SPEAKER TERMINAL M5102	262-300002-04(5)	SPEAKER TERMINAL 4P BINDING R/B W/O PLUG KF-J5000-04
PRE-OUT BOARD PCB ASSEMBLY	800-POBD53-20	T753AH (US) Phase II Pre-Out Board Assembly
CAPACITORS C603,C604,C611-C620,C640,C645, C650,C655,C660,C665,C670,C675, C703,C708	130-221022-03(2)/E	CAP ELEC GS 22uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C621,C622,C637,C642,C667,C679, C680,C691,C692	130-471022-03(1)/E	CAP ELEC SS 47uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C626	133-222022-70(1)/E	CAP ELEC SS 220uF 16V 20% 85C 8x9mm RAD (RoHS)
C647,C652,C657,C662,C672,C700, C705	130-101022-02(8)/E	CAP ELEC SS 10uF 16V 20% 85C RAD HEIGHT =7mm MAX (RoHS)
C684-C688,C699	130-332022-02(4)/E	CAP ELEC GR 330uF 16V 20% 85C RAD (RoHS)
DIODES D601,D605-D610 D611-D614	300-000000-08(2)/E 301-010071-00(3)/E	DIODE SW 4NS DO35 1N4148 (RoHS) DIODE RECT 1A/1000V DO41 WIN4007 REEL TYPE (RoHS)
JUMPER BAR JP6201-JP6216	670-075200-01(7)	JUMPER BAR DIA1.5 X 25 R.1
INDUCTORS L602-L610	152-010012-02(3)/E	IND CHOKE 10uH 10% EC36 AXIAL EC36-100K (RoHS)
RCA JACKS M607,M609	265-404050-00(4)	RCA JACK 4 R-W/R-W PCB MOUNT GOLD
M608,M612	265-402030-00(7)	RCA JACK 2 B/B PCB MOUNT GOLD RS-213G-02(W)
M610	265-402020-00(9)	RCA JACK 2 W/W PCB MOUNT GOLD RS-213G-06(W) (W/O COVER)
M611	265-401010-00(6)	RCA JACK 1 RED PCB MOUNT GOLD RS-116G/R (W/O COVER)
TRANSISTORS Q601-Q615,Q617,Q629,Q630,Q632, Q633	339-000035-00(4)	XTR SS NPN HFE200-700 30MHz SPT RN1241A

Reference No.	Database Part No.	Description
Q6101,Q6102	339-000036-00(3)	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q6104	339-000040-00(7)	XTR SS NPN HFE30 250MHz SPT DTC114ESATP
Q621-Q626,Q6103	339-010039-00(4)	XTR SS PNP HFE 30 250MHz SPT DTA114ESATP
RESISTORS		
R631,R632,R6110	381-100121-10(8)	RES MF 1K OHM 1% 1/6W AXIAL TAPE & REEL
R635,R645,R647,R654,R659,R666, R678,R6101-R6104,R6109	381-330131-10(6)	RES MF 3.3K OHM 1% 1/6W AXIAL
R648,R655,R660,R667,R679	381-150121-31(2)	RES MF 1.5K OHM 1% 1/8W AXIAL TAPE & REEL
R671,R6105,R6106	381-270121-10(3)	RES MF 2.7K OHM 1% 1/6W AXIAL TAPE & REEL
R672,R695,R702	381-330021-01(3)	RES MF 330 OHM 1% 1/6W AXIAL TAPE & REEL
R694,R701	381-220121-01(2)	RES MF 2.2K OHM 1% 1/6W AXIAL TAPE & REEL
CAPACITORS SMD		
C738-C740	120-221527-50(5)	CAP CER SMD 220pF 50V 10% X7R 0603 TAPE
C747-C766	120-104528-71(9)	CAP CER SMD 0.1uF 50V 20% Y5V 0603 TAPE
DIODES SMD		
D615-D618	303-391200-04(3)	DIODE ZENER SMD 12V 500mW 5% SOD123 MMSZ5242BT1
ICS SMD		
U609-U615	507-705532-01(7)/E	IC AUDIO LOW NOISE OP-AMP SMD NJM5532M (RoHS)
POWER SUPPLY BOARD		
PCB ASSEMBLY*AH, AHT	800-PSUD53-20	T753AH (US) Phase II Power Supply Board Assembly
PCB ASSEMBLY*C,CT	800-PSED53-20	T753C (CE) Phase II Power Supply Board Assembly
CAPACITORS		
C75	100-223577-28(2)	CAP CER KK 0.022uF 50V 10% Z5U ST5 RAD
C752	130-477052-04(8)/E	CAP ELEC SS 4.7uF 50V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C753	106-102076-00(6)	CAP MpF 0.001uF 63V 5% DMF 5 SERIES
C763	100-103079-35(1)	CAP CER ECKDRS 10nF 400VAC +80/-20% V RAD ST10 ECKDRS103ZV
DIDOES		
D751-D756	301-010071-00(3)/E	DIODE RECT 1A/1000V DO41 WIN4007 REEL TYPE (RoHS)

Reference No.	Database Part No.	Description
FUSES		
F751*AH,AHT 	370-019100-00(2)	FUSE TIME-LAG 10A/250VAC 5X20mm UL/CSA 5T
F751*C,CT 	370-015100-03(3)	FUSE 800mA 250V TIME LAG LBC 5x20mm 5T UL/CSA/VDE/SEMKO
F752*AH,AHT 	370-011100-06(4)	FUSE 1.6A 250V TIME LAG LBC 5x20mm 5T UL/CSA/VDE/SEMKO
F752*C,CT 	370-018100-05(2)	FUSE TIME-LAG 6.3A/250VAC 5X20mm VDE/UL/CSA 5T
RELAY		
M751	182-121210-00(3)/E	RELAY MINIATURE 2P1T SDT-S-112DMR (RoHS)
TRANSISTORS		
Q751	339-000001-01(6)/E	XTR SS NPN HEF 100 200MHz TO-92 C1815Y (RoHS)
RESISTORS		
R751 	382-022834-60(8)	RES FUSIBLE 0.22 OHM 10% 1/2W AXIAL
R754*AH,AHT 	387-390453-61(1)	RES CONDUCTIVE PATH 3.9M OHM 1/2W 5% 250V
STANDBY TRANSFORMER		
T751 	177-004005-01(2)/E	TRANSFORMER PW EI-35 100V/220V T05382B ISS 2 (RoHS)
JUMPERS		
JP1*AH,AHT	232-005160-00(1)/E	TINNED WIRE DIA 0.5MM L=16.0MM (GP)
JP2*AH,AHT	232-005160-00(1)/E	TINNED WIRE DIA 0.5MM L=16.0MM (GP)
JP3*C,CT	232-005080-00(9)/E	TINNED WIRE DIA 0.5MM L=8.0MM (GP)
JMP1	232-005190-00(4)/E	TINNED WIRE DIA 0.5MM L=19.0MM (GP)
JMP2	232-000060-02(8)/E	TINNED WIRE DIA 0.5MM L=6MM (GP)
JMP4	232-005190-00(4)/E	TINNED WIRE DIA 0.5MM L=19.0MM (GP)
POWER SWITCH BOARD PCB ASSEMBLY		
	800-PWBD53-20	T753AH (US) Phase II Power Switch Board Assembly
CAPACITORS		
C764 	100-103079-35(1)	CAP CER ECKDRS 10nF 400VAC +80/-20% V RAD ST10 ECKDRS103ZV
POWER SWITCH		
SW1 	182-011118-00(9)/E	POWER SWITCH TV-8 10A/250VAC UL/CSA/VDE/F/D/S PS3-22SPA-P7CZ BABY BLUE HN (RoHS)

Reference No.	Database Part No.	Description
<u>SECONDARY BOARD</u> PCB ASSEMBLY	800-SEBD53-20	PCB Assy T753AH (US) Phase II Secondary Board Assembly
CAPACITORS C801,C802	130-124072-00(1)	CAP ELEC LP 12000uF 80V 20% RAD
DIODE D801	305-512540-04(5)/E	BRIDGE RECTIFIER 25A 400V BR254W BR-25W (RoHS)
JUMPER BARS JMP9200- JMP9206	670-075201-01(6)	JUMPER BAR DIA1.5 X 30 R.1
<u>S-VIDEO BOARD</u> PCB ASSEMBLY	800-SVBD53-20	T753AH (US) Phase II S-Video Board Assembly
CAPACITORS C4108,C4112,C4156,C4170,C4171, C4178,C4179 C4116	130-472012-02(7)/E 130-103012-03(3)	CAP ELEC GR 470uF 10V 20% 85C RAD ST5 EGR-R-477M1A-01 (RoHS) CAP ELEC GS 1000uF 10V 20% 85C RAD ST5 GS102M010G130CXC
C4134,C4149,C4101-C4107,C4109- C4111,C4113-C4115,C4158 C4136,C4146	130-102012-03(7) 106-247076-04(9)/E	CAP ELEC SS 100uF 10V 20% 85C RAD HEIGHT = 7mm MAX CAP MpF 0.47uF 63V +/-5% DMF 5 SERIES (RoHS)
C4138	118-200078-00(2)	CAP TRIMMER 20pF 20% SEALED HORI. PITCH=5mm CVN620
C4141,C4133,C4137	130-107052-03(6)/E	CAP ELEC SS 1uF 50V 20% 85C RAD HEIGHT= 7mm MAX (RoHS)
C4144	130-108052-01(9)/E	CAP ELEC. SS 0.1uF 50V 20% 85C RAD HEIGHT=7mm (RoHS)
C4145	130-221022-03(2)/E	CAP ELEC GS 22uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C4150	130-471022-03(1)/E	CAP ELEC SS 47uF 16V 20% 85C RAD HEIGHT = 7mm MAX (RoHS)
C4151	130-101022-02(8)/E	CAP ELEC SS 10uF 16V 20% 85C RAD HEIGHT =7mm MAX (RoHS)
C4153,C4157	130-227052-04(9)/E	CAP ELEC SS 2.2uF 50V 20% 85C RAD ESS-R-225M1H-01 (RoHS)
C4160,C4162,C4166,C4167	130-222012-03(9)/E	CAP ELEC SS 220uF 10V 20% 85C RAD ESS-R-227M1A-01 (RoHS)
C4186	106-247076-01(6)	CAP MpF 0.047uF 63V 5% DMF 5 SERIES
DIODES D4101-D4111	300-000000-08(2)/E	DIODE SW 4NS DO35 1N4148 (RoHS)
INDUCTORS L4101	152-056910-03(7)/E	IND CHOKE 5.6uH +/-10% AXIAL EC24-5R6K (RoHS)
L4102	152-022010-02(1)	IND CHOKE 22uH 10% AXIAL EC24-220K

Reference No.	Database Part No.	Description
DIN JACKS M4101-M4108	266-411030-01(9)	DIN JACK 1 BLACK PCB MOUNT MD-113
TRANSISTORS Q4108,Q4116-Q4119,Q4151-Q4155	339-010037-00(6)	XTR SS PNP HFE 270-560 140MHz 2SA933ASTPS
Q4113,Q4114,Q4121,Q4124,Q4125, Q4128,Q4130,Q4133,Q4142-Q4145	339-000036-00(3)	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4115,Q4126,Q4127	339-000039-00(9)	XTR SS NPN HFE270-560 180MHz 2SC1740STPS
Q4120,Q4123,Q4146,Q4147	339-000038-00(1)	XTR SS NPN HFE20 250MHz DTC123ESATP
Q4122,Q4131	339-000012-00(2)	XTR SS NPN HFE 68 30MHz SPT DTC144ESATP
Q4132	339-000001-01(6)/E	XTR SS NPN HEF 100 200MHz TO-92 C1815Y (RoHS)
Q4136,Q4137,Q4140,Q4141	339-010022-00(4)/E	XTR SS PNP HFE 120-200 200MHz TO-92 8550C (RoHS)
SWITCH S4101	182-410220-02(3)	SW SLIDE 2P2T RIGHT L=9 JSK022N09-G09
IC U4101	505-557476-00(8)	IC OSD DIP30SD LC74763-9012
CRYSTALS X4101	290-514320-01(2)/E	CRYSTAL 14.318MHz 30ppm 32pF HC-49S (RoHS)
X4102	290-517720-01(5)/E	CRYSTAL 17.73447MHz 20ppm 30pF HC-49S (RoHS)
ICS SMD U4102,U4103	500-014051-00(9)	IC LOGIC SINGLE 8 CH ANALOG MUX/DEMUX SMD M74HC4051MIR
TIGGER BOARD PCB ASSEMBLY	800-TRBD53-20	T753AH (US) Phase II Trigger Board Assembly
CAPACITORS C351-C354	100-104578-21(6)/E	CAP CER 0.1uF 50V +/-20% Y5V RAD ST5 (RoHS)
SWITCH S351	182-410220-02(3)	SW SLIDE 2P2T RIGHT L=9 JSK022N09-G09
PHONE JACKS M351-M355,M357	270-431030-01(6)	PHONE JACK 1 BLACK PCB MOUNT 3.5mm RIGHT

Reference No.	Database Part No.	Description
DIODES		
D354-D359,D361,D3501	301-010071-00(3)/E	DIODE RECT 1A/1000V DO41 WIN4007 REEL TYPE (RoHS)
D351-D353	303-385190-00(9)/E	DIODE ZENER BZX79 5.1V 1/2W 5% DO35 BZX79-C 5.1V (RoHS)
TRANSISTORS		
Q351	339-000038-00(1)	XTR SS NPN HFE20 250MHz DTC123ESATP
RESISTORS		
R358,R359	383-150033-80(4)	RES MO 150 OHM 5% 2W AXIAL
REGULATORS		
U3501	503-000317-00(2)	I.C. REG 0.1A TO-92 AZ317LZ
U352	503-300120-03(7)	IC VOLT REG 12V 0.1A TO-92 LM78L12
VIDEO-6 BOARD PCB ASSEMBLY		
	800-V6BD53-20	T753AH (US) Phase II Video-6 Board Assembly
CAPACITORS		
C4401-C4403	130-102022-06(8)	CAP ELEC SS 100uF 16V 20% 85C RAD HEIGHT = 7mm MAX
JACKS		
M4401	265-401000-01(9)	RCA JACK 1 YELLOW PCB MOUNT GOLD (W/O COVER)
M4404	265-401010-01(7)	RCA JACK 1 RED PCB MOUNT GOLD (W/O COVER)
M4403	265-401020-01(5)	RCA JACK 1 WHITE PCB MOUNT GOLD
M4402	266-411030-01(9)	DIN JACK 1 BLACK PCB MOUNT MD-113
J4401	270-451030-14(8)	PHONE JACK D6.3 1 PCB MOUNT GOLD KF-C9002-03
COMPOSITE VIDEO BOARD PCB ASSEMBLY		
	800-VEBD53-20	T753AH (US) Phase II Composite Video Board Assembly
CAPACITORS		
C4201-C4203,C4205,C4207	130-102022-06(8)	CAP ELEC SS 100uF 16V 20% 85C RAD HEIGHT = 7mm MAX
C4204,C4206,C4214,C4220	130-472022-01(4)/E	CAP ELEC GR 470uF 16V 20% 85C RAD ST5 EGR-R-477M1C-01 (RoHS)
C4208	130-103012-03(3)	CAP ELEC GS 1000uF 10V 20% 85C RAD ST5 GS102M010G130CXC
C4211,C4225	130-222012-03(9)/E	CAP ELEC SS 220uF 10V 20% 85C RAD ESS-R-227M1A-01 (RoHS)

Reference No.	Database Part No.	Description
DIODES D4201,D4202	300-000000-08(2)/E	DIODE SW 4NS DO35 1N4148 (RoHS)
RCA JACKS M4201,M4202	265-404002-00(3)	RCA JACK 4 Y-Y/Y-Y PCB MOUNT GOLD RS-454-03 (W/SHIELD)
TRANSISTORS Q4201,Q4202	339-000036-00(3)	XTR SS NPN HFE200-700 30MHz 2SC2878A
Q4203,Q4204	339-000038-00(1)	XTR SS NPN HFE20 250MHz DTC123ESATP
Q4207,Q4210	339-010022-00(4)/E	XTR SS PNP HFE 120-200 200MHz TO- 92 8550C (RoHS)
Q4501-Q4503	339-010037-00(6)	XTR SS PNP HFE 270-560 140MHz 2SA933ASTPS
RESISTORS SMD J4201,J4202	398-000036-20(7)/E	RES SMD 0 OHM +/-5% 1/10W 0805 TYPE (GP)
ICS SMD U4201	500-014051-00(9)	IC LOGIC SINGLE 8 CH ANALOG MUX/ DEMUX SMD M74HC4051MIR

NOTE:

THE COMPONENTS IDENTIFIED BY  MARK ARE CRITICAL FOR RISK OF FIRE AND ELECTRICAL SHOCK. REPLACE ONLY WITH PART NUMBER SPECIFIED.

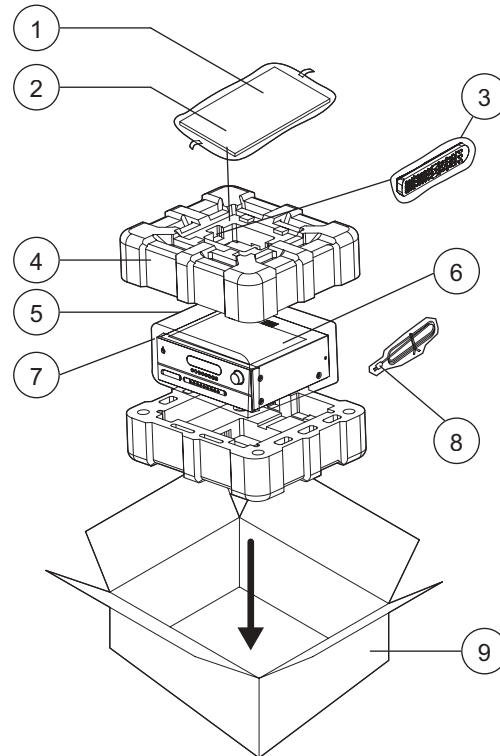
<*AH > : USA, CANADIAN MODEL ONLY.

<*AHT > : USA, CANADIAN WITH TATANUM COLOUR ONLY, ALL ELECTRICAL ARE SAME AS *AH VERSION.

<*C > : EUROPEAN MODEL ONLY.

<*CT > : EUROPEAN MODEL WITH TATANUM COLOUR ONLY, ALL ELECTRICAL ARE SAME AS *C VERSION.

PACKING DIAGRAM & PARTS LIST



Item	Database Part No.	Description	Qty.
1	906-020000-05(7)	POLYBAG MANUAL 260 X 350 X 0.03mm W/SILKSCREEN RECYCLE R.0	1
2	173-640752-00(6)/E	FM WIRE ANTENNA L=2700mm TRANSPARENCE W/Y-TERMINALS (RoHS)	1
	210-002020-02(2)	BATTERY AAA 1.5V ER03X	4
	212-024030-00(2)/E	BATTERY GP LITHIUM BUTTON CELL CR2025 3V (RoHS)	1
	222-647280-00(1)	ANTENNA AM LOOP ASSY W/STAND 4910	1
	223-076200-00(8)/E	REMOTE CONTROLLER NAD ZR-2 (RoHS)	1
	277-008100-02(8)	ANTENNA ADAPTER 300 TO 75 OHM AJ2010	1
	903-075300-03(8)	T753 OWNERS MANUAL ADDENDUM BOOKLE	1
	903-075300-06(2)	T753 OWNERS MANUAL GB/F/D/NL W/WEEE R.2	1
	903-075300-07(3)	T753 OWNERS MANUAL E/I/P/S W/WEEE R.2	1
	904-075200-00(1)/E	CARD WARRANTY T752/T762 NAD R.0 (RoHS)	1
3	223-075200-03(6)/E	REMOTE CONTROLLER NAD HTR-2A P:V1.08 L:V1.12 (RoHS)	1
4	901-076300-03(9)	POLYOAM TOP/BOTTOM T763 R.3	2
5	906-076200-01(2)	POLYBAG T762 W/SILKSCREEN MAIN UNIT (W650 X L650mm) HD PE R. 0	1
6	904-075207-00(3)/E	A3 WHITE PAPER 80G (RoHS)	1
7	906-076300-00(7)/E	PROTECTIVE COVER T763 (RoHS)	1
8*AH, AHT	234-288101-00(6)	AC CORD 110V 3PINS 125V/13A SJT AWG16/3C UL/CSA L=2M	1
⚠			
*C, CT	234-298311-00(2)	AC CORD CE 3 PINS 16A 250V LF L=67 INCH LP-34 H05VV-F 3C LS- 60	1
⚠			
9	911-075300-01(3)	MASTER CARTON BOX T753 R.1	1

NOTE:

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VERSION HISTORY

SERIAL NO	SOFTWARE VER.	PCB ASSEMBLY VERSION
R5YT75358191-R5YT75358560	V2.10	ALL PCBs ARE 555-2753##-22
R61T75358421-R61T75358850	V2.12	ONLY 555-275347-22, ALL OTHER ARE 555-2753##-23
R63T75359151-R63T75359200 R63T75358851-ONWARD	V2.12	ONLY 555-275300-24, ALL OTHER ARE 555-2753##-23

REMARK: T 753 PHASE II has divided into 8 PCBs Part Number:

1. 555-275300-##
2. 555-275301-##
3. 555-275305-##
4. 555-275306-##
5. 555-275311-##
6. 555-275337-##
7. 555-275342-##
8. 555-275347-##

SERVICE MANUAL

T 753 (Phase II)

Surround Sound Receiver